



**Flu o Dy**

**CATALOGUE**



**FLUODY S.r.l.**

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info@fluody.com [www.fluody.com](http://www.fluody.com)

**FluoDy** is a chemical Contract Research Organization (cCRO), located in Villanova Mondovì (CN), Italy.

Our expertise is **synthetic organic chemistry**: we offer **R&D services, process development, custom synthesis and contract manufacturing** at lab/pilot scale in Italy and at industrial scale at La Mesta (Gilette, FR), our partner and shareholder.

**Fluody** is investing in **Research and Development of fluorescent dyes** for Life Sciences applications: we have our own line of dyes and ongoing R&D projects, co-founded by Regione Piemonte, POR FESR 2014-2020.

Our **chemists** have **strong expertise** in designing and synthesizing organic molecules from lab to kilos scale with particular attention to R&D and process development.

**FluoDy** is member of **bioPmed**, the Piedmont innovation cluster focused on Healthcare Industry and Life Sciences.

We have got the **CIR (Crédit d'Impôt Recherche)** Tax Accreditation by the French "Minister of Education and Research". This certification is part of the program "CIR – Crédit d'impôt recherche" and allows all French companies to benefit of our R&D services with a significant tax credit.

One more reason to work with us!



from Idea to Product



Competence and Skill

## We fulfill your requirements in chemicals need from milligrams to industrial scale

Team Work



R&D for Life Sciences



# Services



## Contract R&D

We offer Research & Development service, under confidentiality agreement basis. We can design and synthesize custom tailored molecules and provide fully detailed technical and analytical reports and representative chemical samples as results of research activity.



## Process Development

We carry out Process Development and Optimization of Critical Synthetic Steps. We can study the synthetic process from lab scale (some grams) to pilot scale (some kilos) focusing on all the following parameters: Yield, Economical Considerations, Reproducibility and Consistency.



## Custom Synthesis

We are able to synthesize not commercial molecules or novel chemical structures according to your need, from first grams samples to lab/pilot production. We can either reproduce synthetic procedures reported in prior art or develop new synthetic routes to supply Reference and Working Standards, API impurities, functional building blocks, dyes or fine chemistry compounds.



## Contract Manufacturing

Thanks to the partnership with La Mesta Chimie Fine, we can offer contract manufacturing at industrial scale (up to multi-tons) at the chemical plant of La Mesta, Gilette, (FR).

We support our customers in chemical development to industrial scale to make their projects successful.

# Technologies



## Analysis

High Performance Liquid Chromatography (HPLC)  
Mass Spectrometry (MS)  
Liquid Chromatography-Mass Spectrometry (LC-MS)  
UV/Vis Spectroscopy  
Near Infrared Spectroscopy (FT/IR)  
Spectrofluorimetry  
Melting Point  
Loss on Drying  
NMR (University of Chemistry of Turin)



## Purification

Flash Chromatography



## Process Development and Production

Our laboratories are equipped with jacketed reactors (up to 25 liters), glass and hastelloy to assure good process control, reproducibility and consistency in process development, scale up and production.



# Products

## Pharma

API Intermediates and API impurities ..... 7

## Photo and Other Applications

Fine Chemicals ..... 17

## Life Sciences

Fluorescent Cyanine Dyes ..... 22

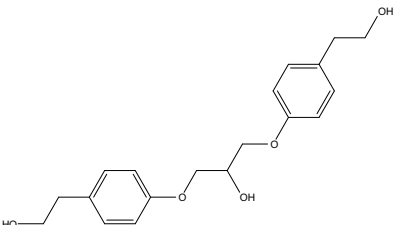


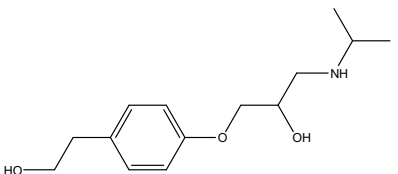


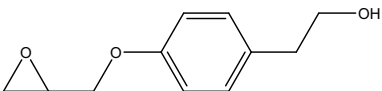


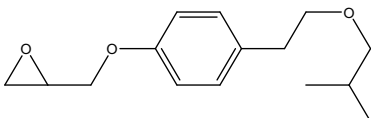
# Pharma

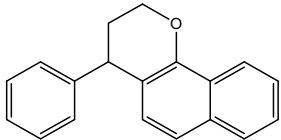
## API IMPURITIES and INTERMEDIATES

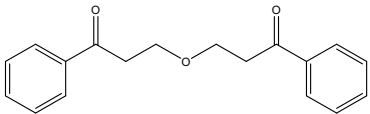
	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> 1,3-bis (4-(2-hydroxyethyl) phenoxy) propan-2-ol
	<b>Fluody Code:</b> FY002

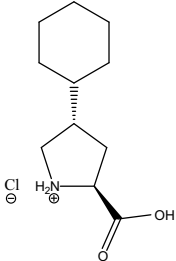
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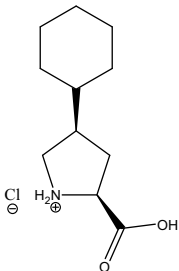
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	<b>Chemical Name:</b> 4-(2-oxiranylmethoxy)-Benzene ethanol
	<b>Fluody Code:</b> FY025

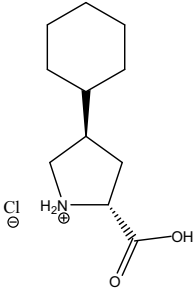
	<b>CAS RN:</b> 108494-98-0
	<b>Chemical Name:</b> 2-[4-(2-isobutoxyethyl) benzyl] oxirane
	<b>Fluody Code:</b> FY055

	<b>CAS RN:</b> 94305-25-6
	<b>Chemical Name:</b> 4-phenyl-3,4-dihydro-2H-Benzo[h]Chromene
	<b>Fluody Code:</b> FY037

	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> (1-Phenyl-1-Oxo-3-Propyl) Ether
	<b>Fluody Code:</b> FY038

	<b>CAS RN:</b> 90657-55-9
	<b>Chemical Name:</b> Trans-4-Cyclohexyl-L-Proline, Hydrochloride (1:1)
	<b>Fluody Code:</b> FY071

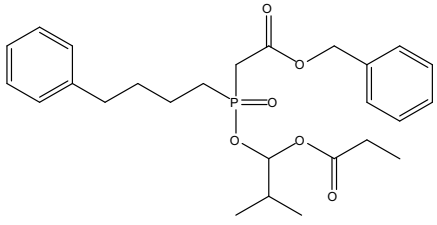
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	<b>Chemical Name:</b> Cis-4-Cyclohexyl-L-Proline, Hydrochloride (1:1)
	<b>Fluody Code:</b> FY044

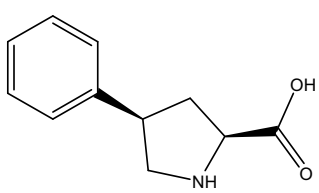
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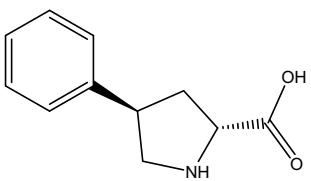
	<b>CAS RN:</b> 210585-87-8
	<b>Chemical Name:</b> Cis 4 Cyclohexyl D Proline Hydrochloride (1:1)
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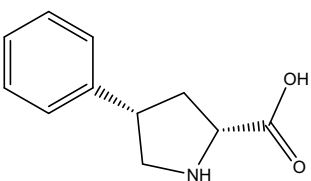
<p>Racemate</p>	<b>CAS RN:</b> 1037313-96-4 (R,R) + 1037313-97-5 (S,S)
	<b>Chemical Name:</b> 2-[(R)-[(1R)-2-methyl-1-(1-oxopropoxy)propoxy](4-phenylbutyl) phosphinyl]-Acetic acid
	and 2-[(S)-[(1S)-2-methyl-1-(1-oxopropoxy)propoxy](4-phenylbutyl) phosphinyl]-Acetic acid (racemate S,S + R,R)
	<b>Fluody Code:</b> FY052

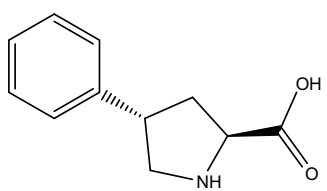
<p>Racemate</p>	<b>CAS RN:</b> 128948-00-5 (R,S) + 128948-01-6 (S,R)
	<b>Chemical Name:</b> 2-[(R)-[(1S)-2-methyl-1-(1-oxopropoxy)propoxy](4-phenylbutyl) phosphinyl]-Acetic acid
	And 2-[(S)-[(1R)-2-methyl-1-(1-oxopropoxy)propoxy](4-phenylbutyl) phosphinyl]-Acetic acid (racemate R,S + S,R)
	<b>Fluody Code:</b> FY053

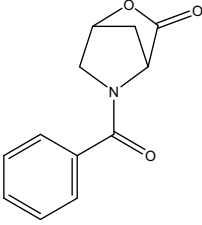
	<b>CAS RN:</b> 123599-78-0
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	<b>Fluody Code:</b> FY050

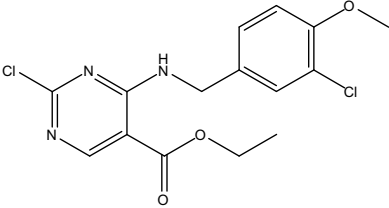
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	<b>Chemical Name:</b> Cis-4-phenyl-L-Proline
	<b>Fluody Code:</b> FY080

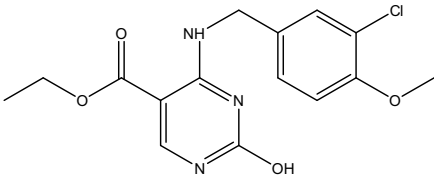
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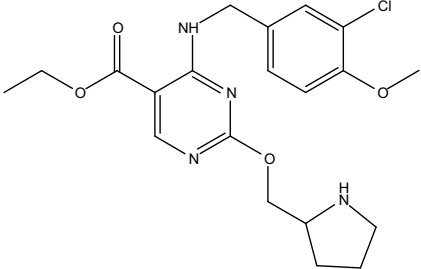
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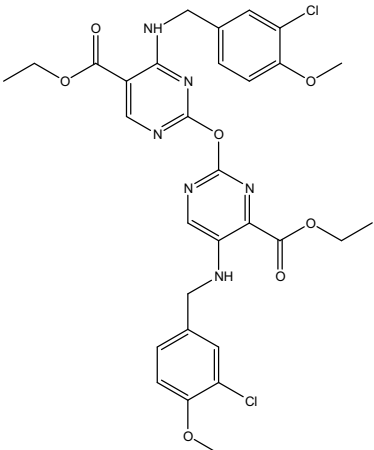
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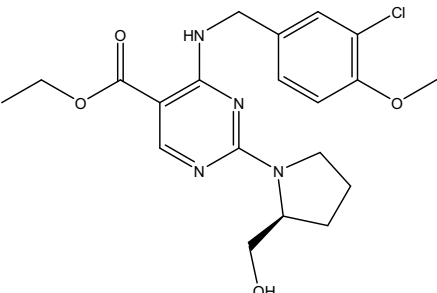
	<b>CAS RN:</b> 32361-63-0
	<b>Chemical Name:</b> 5-benzoyl-2-Oxa-5-azabicyclo[2.2.1]heptan-3-one
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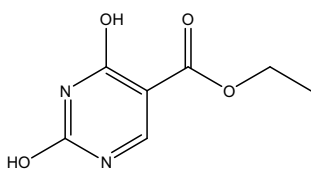
	<b>CAS RN:</b> 330786-00-0
	<b>Chemical Name:</b> 2-chloro-4-[[3-chloro-4-methoxyphenyl)methyl]amino]-5-Pyrimidine carboxylic acid ethyl ester
	<b>Fluody Code:</b> FY063

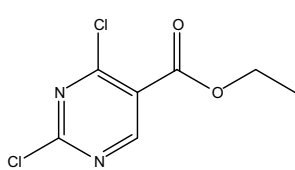
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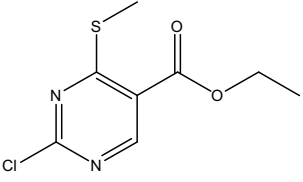
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	<b>Chemical Name:</b> Ethyl 4-(3-chloro-4-methoxybenzylamino)-2-(pyrrolidin-2-yl methoxy)pyrimidine-5-carboxylate
	<b>Fluody Code:</b> FY068

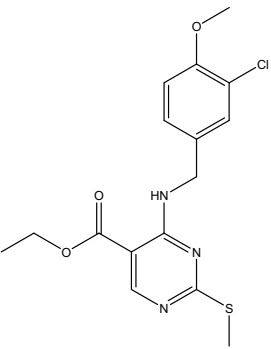
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	<b>Chemical Name:</b> Ethyl 5-(3-chloro-4-methoxybenzylamino)-2-(4-(3-chloro-4-methoxybenzylamino)-5-(ethoxycarbonyl) pyrimidin-2-yl oxy) pyrimidine-4-carboxylate
	<b>Fluody Code:</b> FY070

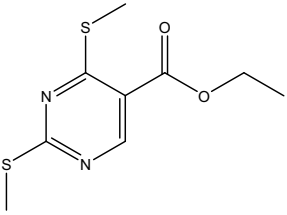
	<b>CAS RN:</b> 330785-83-6
	<b>Chemical Name:</b> (S)-ethyl 4-(3-chloro-4-methoxybenzylamino)-2-(2-(hydroxymethyl)pyrrolidin-1-yl)pyrimidine-5-carboxylate
	<b>Fluody Code:</b> FY069

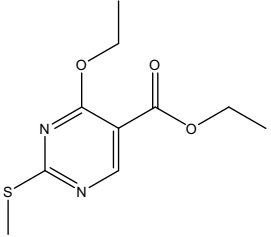
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	<b>Chemical Name:</b> 5-Carbethoxy Uracyl
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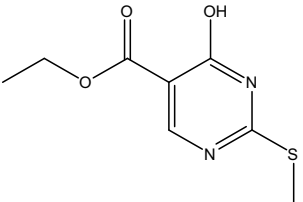
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	<b>Chemical Name:</b> Ethyl 2,4-dichloro-5-pyrimidinecarboxylate
	<b>Fluody Code:</b> FY094

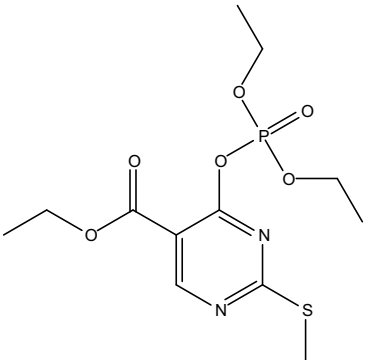
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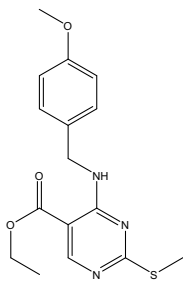
	<b>CAS RN:</b> 330785-81-4
	<b>Chemical Name:</b> 5-Pyrimidinecarboxylic acid, 4-[[3-chloro-4-(methoxyphenyl)Methyl]Amino]-2-(Methylthio)-, ethyl ester
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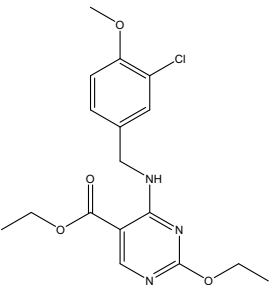
	<b>CAS RN:</b> 5909-25-1
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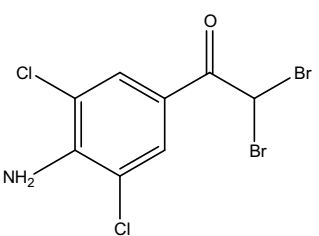
	<b>CAS RN:</b> 84923-27-3
	<b>Chemical Name:</b> 5-Pyrimidinecarboxylic acid, 2-methylthio-4-ethoxy, ethyl ester
	<b>Fluody Code:</b> FY098

	<b>CAS RN:</b> 53554-29-3
	<b>Chemical Name:</b> Ethyl-4-hydroxy-2-(methylthio)pyrimidine-5-carboxylate
	<b>Fluody Code:</b> FY099

	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> Ethyl 4-(diethoxyphosphoryloxy)-2-(methylthio)pyrimidine-5-carboxylate
	<b>Fluody Code:</b> FY100

	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> Ethyl 4-(4-methoxybenzylamino)-2-(methylthio)pyrimidine-5-carboxylate
	<b>Fluody Code:</b> FY066

	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> Ethyl 4-(3-chloro-4-methoxybenzylamino)-2-ethoxypyrimidine-5-carboxylate
	<b>Fluody Code:</b> FY065

	<b>CAS RN:</b> N/A
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	<b>Fluody Code:</b> FY078



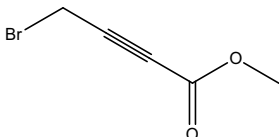
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	<b>Chemical Name:</b> 1-(4-Amino-3,5-dichloro-phenyl)-2-bromo-ethanone
	<b>Fluody Code:</b> FY061

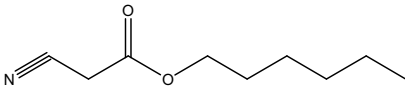
	<b>CAS RN:</b> 71879-56-6
	<b>Chemical Name:</b> 4-Pyridine butanoic acid hydrochloride (1:1)
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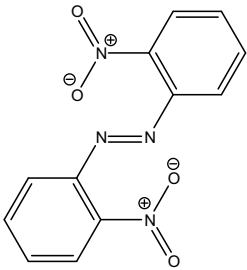
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	<b>Chemical Name:</b> 4-(pyridin-4-yl)butan-1-ol
	<b>Fluody Code:</b> FY114

	<b>CAS RN:</b> 163380-16-3
	<b>Chemical Name:</b> 1-(4-fluorophenyl)-3-[(3R)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl) (3R,4S)- 2-Azetidinone
	<b>Fluody Code:</b> FY079

	<b>CAS RN:</b> 216581-11-2
	<b>Chemical Name:</b> 1-[2-(diphenylmethoxy)ethyl]-4-(diphenylmethyl)-piperazine
	<b>Fluody Code:</b> FY006

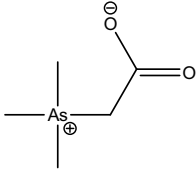
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	<b>Chemical Name:</b> Methyl-4-Bromobutynoate
	<b>Fluody Code:</b> FY008

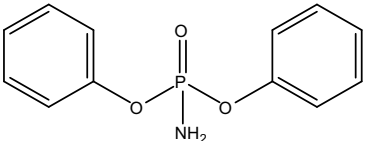
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	<b>Chemical Name:</b> Hexyl cyanoacetate
	<b>Fluody Code:</b> FY016

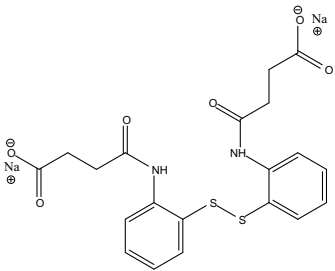
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	<b>Chemical Name:</b> 2,2'-dinitroazobenzene
	<b>Fluody Code:</b> FY011

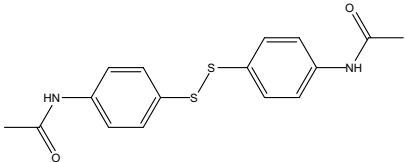
# Photo and Other Applications

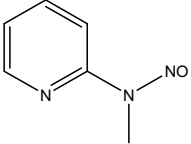
## FINE CHEMICALS

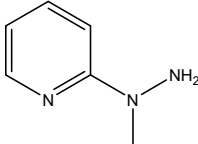
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	<b>Chemical Name:</b> 2-trimethyl arsonium-yl-acetate
	<b>Fluody Code:</b> FY047

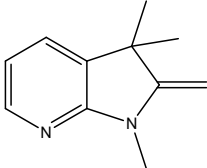
	<b>CAS RN:</b> 2015-56-7
	<b>Chemical Name:</b> Diphenyl phosphoramidate
	<b>Fluody Code:</b> FY058

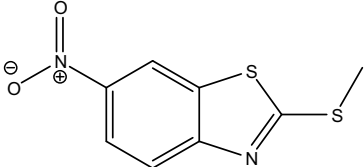
	<b>CAS RN:</b> 165116-09-6
	<b>Chemical Name:</b> , 4,4'-[dithio bis(2,1-phenyleneimino)] bis 4-oxo Butanoic acid sodium salt (1:2)
	<b>Fluody Code:</b> FY017

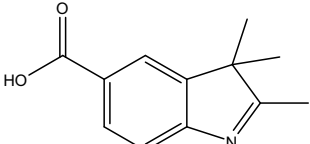
	<b>CAS RN:</b> 16766-09-9
	<b>Chemical Name:</b> N,N'-(dithiodi-4,1-phenylene)bis Acetamide
	<b>Fluody Code:</b> FY018

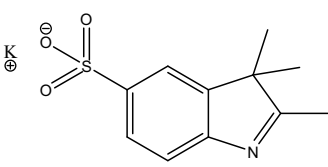
	<b>CAS RN:</b> 16219-98-0
	<b>Chemical Name:</b> <i>N</i> -methyl- <i>N</i> -nitroso-2-Pyridinamine
	<b>Fluody Code:</b> FY026

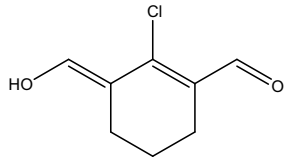
	<b>CAS RN:</b> 4231-74-7
	<b>Chemical Name:</b> 2-(1-methylhydrazinyl)-Pyridine
	<b>Fluody Code:</b> FY027

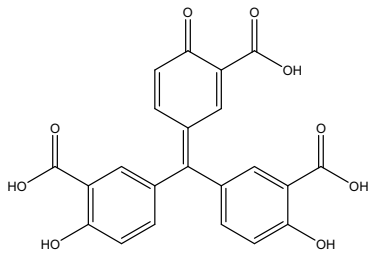
	<b>CAS RN:</b> 41450-85-5
	<b>Chemical Name:</b> 2,3-dihydro-1,3,3-trimethyl-2-methylene-1 <i>H</i> -Pyrrolo[2,3- <i>b</i> ]pyridine
	<b>Fluody Code:</b> FY028

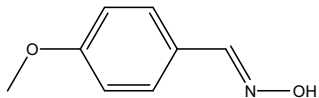
	<b>CAS RN:</b> 3621-99-6
	<b>Chemical Name:</b> 2-(methylthio)-6-nitro- Benzothiazole
	<b>Fluody Code:</b> FY086

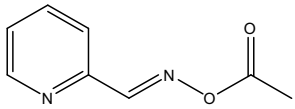
	<b>CAS RN:</b> 84100-84-5
	<b>Chemical Name:</b> 2,3,3-trimethyl-3 <i>H</i> -Indole-5-carboxylic acid
	<b>Fluody Code:</b> FY088

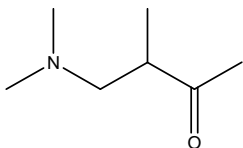
	<b>CAS RN:</b> 184351-56-2
	<b>Chemical Name:</b> 2,3,3-trimethyl-3 <i>H</i> -Indole-5-sulfonic acid, potassium salt
	<b>Fluody Code:</b> FY119

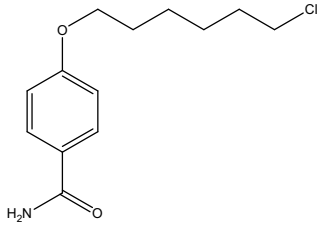
	<b>CAS RN:</b> 61010-04-6
	<b>Chemical Name:</b> 2-Chloro-3-(hydroxymethylene)-1-cyclohexene-1-carboxaldehyde
	<b>Fluody Code:</b> FY118

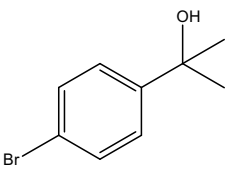
	<b>CAS RN:</b> 4431-00-9
	<b>Chemical Name:</b> Aurintricarboxylic Acid
	<b>Fluody Code:</b> FY089

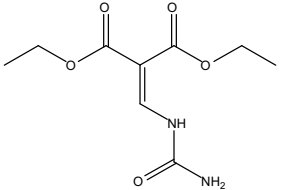
	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> (E)-4-methoxybenzaldehyde oxime
	<b>Fluody Code:</b> FY101

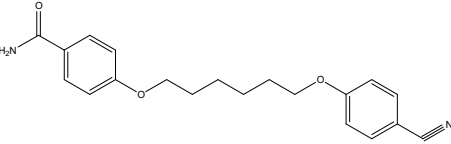
	<b>CAS RN:</b> 19433-10-4
	<b>Chemical Name:</b> [(E)-Pyridin-2-ylmethylideneamino]acetate
	<b>Fluody Code:</b> FY102

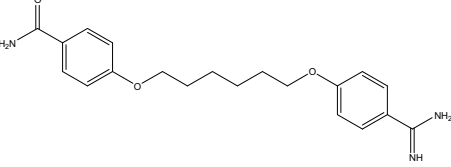
	<b>CAS RN:</b> 22104-62-7
	<b>Chemical Name:</b> 4-(dimethylamino)-3-methylbutan-2-one
	<b>Fluody Code:</b> FY103

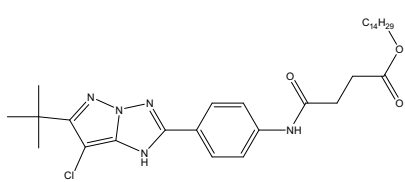
	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> 4-(6-chlorohexyloxy)benzamide
	<b>Fluody Code:</b> FY104

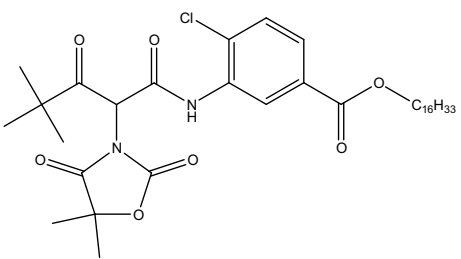
	<b>CAS RN:</b> 2077-19-2
	<b>Chemical Name:</b> 2-(4-bromophenyl)propan-2-ol
	<b>Fluody Code:</b> FY105

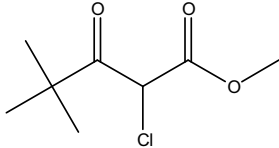
	<b>CAS RN:</b> 61679-84-3
	<b>Chemical Name:</b> Propanedioic Acid, 2-[[[(Aminocarbonyl)Amino]Methylene]-,1,3-Diethyl Ester
	<b>Fluody Code:</b> FY107

	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> 4-[2-(4-cyanophenoxy)hexyloxy]-Benzamide
	<b>Fluody Code:</b> FY109

	<b>CAS RN:</b> N/A
	<b>Chemical Name:</b> 4-[[5-[4-(aminoiminomethyl)phenoxy] hexyl]oxy]-Benzamide
	<b>Fluody Code:</b> FY110

	<b>CAS RN:</b> 152827-98-0
	<b>Chemical Name:</b> Butanoic acid, 4-[[4-[7-chloro-6-(1,1-dimethylethyl)-3H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester
	<b>Fluody Code:</b> FY056

	<b>CAS RN:</b> 168689-49-4
	<b>Chemical Name:</b> Hexadecyl 4-Chloro-3-[2-(5,5-dimethyl-2,4-dioxo-1,3-oxazolidin-3-yl)-4,4-dimethyl-3-oxopentamido]benzoate
	<b>Fluody Code:</b> FY009

	<b>CAS RN:</b> 306935-33-1
	<b>Chemical Name:</b> Methyl 2-chloro-4,4-dimethyl-3-oxopentanoate
	<b>Fluody Code:</b> FY106

# Life sciences

## FLUORESCENT CYANINE DYES



<b>Fluody Code</b>	FD060
<b>Molecular weight</b>	692,86 g/mole
<b>λabsorbance</b>	559nm
<b>λemission</b>	577nm
<b>Purity</b>	≥97,0 (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Asymmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ One Protected Carboxylic Group</li> </ul>

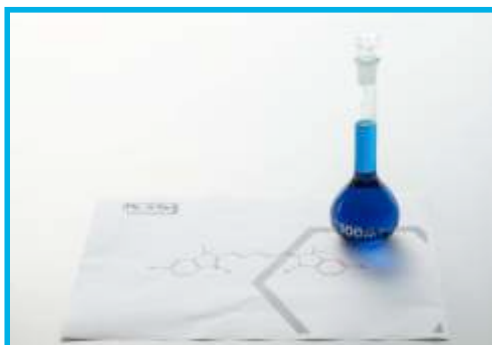
<b>Fluody Code</b>	FD061
<b>Molecular weight</b>	664,81 g/mole
<b>λabsorbance</b>	559nm
<b>λemission</b>	577nm
<b>Purity</b>	≥97,0 (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Asymmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ One Free Carboxylic Group</li> </ul>





<b>Fluody Code</b>	FD001
<b>Molecular weight</b>	734,86 g/mole
<b>λabsorbance</b>	652nm
<b>λemission</b>	670nm
<b>Purity</b>	≥97,0 (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Symmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> </ul>

<b>Fluody Code</b>	FD002
<b>Molecular weight</b>	669,81 g/mole
<b>λabsorbance</b>	647nm
<b>λemission</b>	667nm
<b>Purity</b>	≥97,0 (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Asymmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ One Free carboxylic group</li> </ul>



<b>Fluody Code</b>	FD003
<b>Molecular weight</b>	712,83 g/mole
<b>λabsorbance</b>	653nm
<b>λemission</b>	670nm
<b>Purity</b>	≥97,0 (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Asymmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ One Free carboxylic group</li> </ul>

<b>Fluody Code</b>	FD012 <b>pH SENSITIVE</b>
<b>Molecular weight</b>	478,97 g/mole
<b>λabsorbance</b>	645nm pH≤6 500nm pH≥8
<b>λemission</b>	664nm pH≤6 No Fluorescent at pH≥8
<b>Purity</b>	≥97,0 (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Symmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ pK<sub>a</sub>=6,2</li> <li>✓ pH sensitive</li> </ul>



<b>Fluody Code</b>	FD017
<b>Molecular weight</b>	690,8 g/mole
<b><math>\lambda</math>absorbance</b>	654nm
<b><math>\lambda</math>emission</b>	671nm
<b>Purity</b>	$\geq 97,0$ (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"><li>✓ Symmetric Cyanine Dye</li><li>✓ Hydrophilic</li><li>✓ Two Free Carboxylic Groups</li></ul>



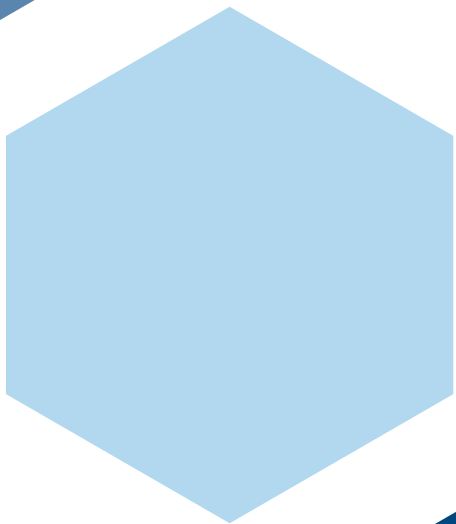
<b>Fluody Code</b>	FD019
<b>Molecular weight</b>	760,89 g/mole
<b><math>\lambda</math>absorbance</b>	752nm
<b><math>\lambda</math>emission</b>	760nm
<b>Purity</b>	$\geq 97,0$ (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Symmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> </ul>

<b>Fluody Code</b>	FD020
<b>Molecular weight</b>	738,87 g/mole
<b><math>\lambda</math>absorbance</b>	752nm
<b><math>\lambda</math>emission</b>	760nm
<b>Purity</b>	$\geq 97,0$ (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Symmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ One Free Carboxylic Group</li> </ul>



<b>Fluody Code</b>	FD021
<b>Molecular weight</b>	716,84 g/mole
<b><math>\lambda</math>absorbance</b>	752nm
<b><math>\lambda</math>emission</b>	760nm
<b>Purity</b>	$\geq 97,0$ (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Symmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> <li>✓ Two Free Carboxylic Groups</li> </ul>

<b>Fluody Code</b>	FD033
<b>Molecular weight</b>	813,42 g/mole
<b><math>\lambda</math>absorbance</b>	791nm
<b><math>\lambda</math>emission</b>	810nm
<b>Purity</b>	$\geq 97,0$ (Area%,HPLC)
<b>General Properties</b>	<ul style="list-style-type: none"> <li>✓ Symmetric Cyanine Dye</li> <li>✓ Hydrophilic</li> </ul>







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