Data Sheet (Cat.No.T8633)

TargetMol

9-FLUORENOL

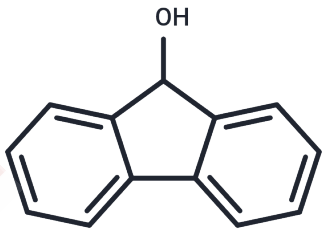
Chemical Properties

CAS No. : 1689-64-1

Formula: C13H10O

Molecular Weight: 182.22

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	9-FLUORENOL is a dopamine reuptake inhibitor with IC50 of 9 μM, and a major metabolite of a compound developed as a wakefulness-promoting agent.
Targets(IC50)	Dopamine Receptor,Drug Metabolite
In vivo	Fluorenol(100 mg/kg) is reported to promote wakefulness in mice with 39% increased effectiveness over the structurally related compound, modafinil[1]

Solubility Information

Solubility	DMSO: 25 mg/mL (137.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.98 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4879 mL	27.4394 mL	54.8787 mL
5 mM	1.0976 mL	5.4879 mL	10.9757 mL
10 mM	0.5488 mL	2.7439 mL	5.4879 mL
50 mM	0.1098 mL	0.5488 mL	1.0976 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dunn D , Hostetler G , Iqbal M , et al. Wake promoting agents: Search for next generation modafinil, lessons learned: Part III[J]. Bioorganic & Medicinal Chemistry Letters, 2012, 22(11):3751-3753.
Gaillard E , Fox M A , Wan P . A kinetic study of the photosolvolysis of 9-fluorenol[J]. Journal of the American Chemical Society, 1989, 111(6):2180-2186.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481