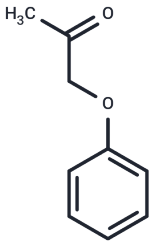
Data Sheet (Cat.No.T25944)

TargetMol

Phenoxyacetone

Chemical Properties



CAS No. : 621-87-4

Formula: C9H10O2

Molecular Weight: 150.17

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

Biological Description

Description	Phenoxyacetone (NSC-1876) is an inhibitor of acetylcholinesterase.
Targets(IC50)	Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 50 mg/mL (332.96 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: 5 mg/mL (33.3 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	6.6591 mL	33.2956 mL	66.5912 mL
5 mM	1.3318 mL	6.6591 mL	13.3182 mL
10 mM	0.6659 mL	3.3296 mL	6.6591 mL
50 mM	0.1332 mL	0.6659 mL	1.3318 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

Dafforn A, et al. Acetylcholinesterase inhibition by the ketone transition state analog phenoxyacetone and 1-halo-3-phenoxy-2-propanones. Biochem Biophys Res Commun. 1982 Jan 29;104(2):597-602.
Landquist JK. Oxidative cyclisation of ketone thiosemicarbazones. II. Derivatives of phenoxyacetone. J Chem Soc Perkin 1. 1970;2:323-4.

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