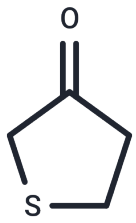
Data Sheet (Cat.No.T37630)

TargetMol

Tetrahydrothiophen-3-one

Chemical Properties



CAS No. : 1003-04-9

Formula: C4H6OS

Molecular Weight: 102.15

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	Tetrahydrothiophen-3-one can be used as food spices.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 60 mg/mL (587.37 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 (19.58 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	9.7895 mL	48.9476 mL	97.8953 mL
5 mM	1.9579 mL	9.7895 mL	19.5791 mL
10 mM	0.979 mL	4.8948 mL	9.7895 mL
50 mM	0.1958 mL	0.979 mL	1.9579 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

Planchestainer M, et al. Widely applicable background depletion step enables transaminase evolution through solid-phase screening. Chem Sci. 2019 May 9;10(23):5952-5958.
Chua CK, Sofer Z, Pumera M. Functionalization of Hydrogenated Graphene: Transition-Metal-Catalyzed Cross-Coupling Reactions of Allylic C-HBonds. Angew Chem Int Ed Engl. 2016 Aug 26;55(36):10751-4.