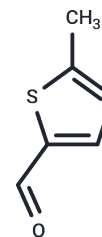


5-Methyl-2-thiophenecarboxaldehyde

Chemical Properties

CAS No. :	13679-70-4
Formula:	C ₆ H ₆ O ₂ S
Molecular Weight:	126.18
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	5-Methyl-2-thiophenecarboxaldehyde is a candidate microscopic third-order nonlinear optical (NLO) material. 5-Methyl-2-thiophenecarboxaldehyde possesses a wide range of biological activities, such as anticancer activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (634.01 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: 3.3 mg/mL (26.15 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.9252 mL	39.6259 mL	79.2519 mL
5 mM	1.585 mL	7.9252 mL	15.8504 mL
10 mM	0.7925 mL	3.9626 mL	7.9252 mL
50 mM	0.1585 mL	0.7925 mL	1.585 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

DavutAvci, et al. 5-Methyl-2-thiophenecarboxaldehyde: Experimental and TD/DFT study. Journal of Molecular Structure. 2018 Dec 15; 1174: 52-59.

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