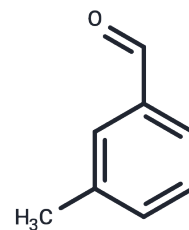


m-Tolualdehyde

Chemical Properties

CAS No. :	620-23-5
Formula:	C ₈ H ₈ O
Molecular Weight:	120.15
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	m-Tolualdehyde is a natural aromatic aldehyde exhibiting inhibitory effects against Tyrophagus putrescentiae (Schrank), rendering it suitable for mite control.
Targets(IC50)	Others,Endogenous Metabolite,Antibacterial

Solubility Information

Solubility	DMSO: 80 mg/mL (665.83 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 (27.47 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	8.3229 mL	41.6146 mL	83.2293 mL
5 mM	1.6646 mL	8.3229 mL	16.6459 mL
10 mM	0.8323 mL	4.1615 mL	8.3229 mL
50 mM	0.1665 mL	0.8323 mL	1.6646 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

Raquel Rodríguez-Solana, et al. Production method and varietal source influence the volatile profiles of spirits prepared from fig fruits (*Ficus carica* L.). *European Food Research and Technology* volume 244, pages2213-2229 (2018)

Park JH, et al. Food Protective Effects of 3-Methylbenzaldehyde Derived from *Myosotis arvensis* and Its Analogues against *Tyrophagus putrescentiae*. *Sci Rep.* 2017 Jul 26;7(1):6608.

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