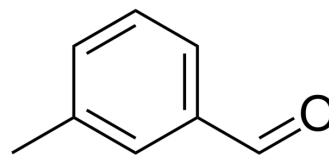


m-Tolualdehyde

Cat. No.:	HY-78086
CAS No.:	620-23-5
Molecular Formula:	C ₈ H ₈ O
Molecular Weight:	120.15
Target:	Endogenous Metabolite; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (832.29 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.81 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.81 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (20.81 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	m-Tolualdehyde (3-Methylbenzaldehyde) is a compound that can be isolated from <i>Ficus carica</i> L. and <i>Myosotis arvensis</i> . m-Tolualdehyde has food protective effects. m-Tolualdehyde shows acaricidal activities for <i>Tyrophagus putrescentiae</i> with a LD ₅₀ of 1.97 μg/cm ³ [1][2].
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. 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.

[2]. 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)

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA