

Meconin

Chemical Properties

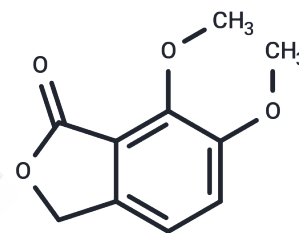
CAS No. : 569-31-3

Formula: C₁₀H₁₀O₄

Molecular Weight: 194.18

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Meconin is a noscapine metabolite and a useful adjunct in detecting illicit opiate use.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 10 mg/mL (51.5 mM),Sonication is recommended. DMF: 30 mg/mL (154.5 mM),Sonication is recommended. DMSO: 55 mg/mL (283.24 mM),Sonication is recommended. DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL (2.57 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 (10.3 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	5.1499 mL	25.7493 mL	51.4986 mL
5 mM	1.030 mL	5.1499 mL	10.2997 mL
10 mM	0.515 mL	2.5749 mL	5.1499 mL
50 mM	0.103 mL	0.515 mL	1.030 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

Morley SR, Forrest AR, Galloway JH. Validation of meconin as a marker for illicit opiate use. *J Anal Toxicol.* 2007 Mar;31(2):105-8.

Jones JT, et al. Detection of codeine, morphine, 6-monoacetylmorphine, and meconin in human umbilical cord tissue: method validation and evidence of in utero heroin exposure. *Ther Drug Monit.* 2015 Feb;37(1):45-52.

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