

2-(Methylamino)benzoic acid

Chemical Properties

CAS No. :	119-68-6
Formula:	C ₈ H ₉ NO ₂
Molecular Weight:	151.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	2-(Methylamino)benzoic acid is the main metabolite of methyl-N-methylantranilates (MMA) formed via ester bond hydrolysis, reflecting the ester group conversion process in vivo. MMA can be isolated from citrus plants and possesses certain analgesic activity, while 2-(Methylamino)benzoic acid is commonly used to evaluate the metabolic transformation level of MMA in rat liver.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 40 mg/mL (264.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6155 mL	33.0775 mL	66.1551 mL
5 mM	1.3231 mL	6.6155 mL	13.231 mL
10 mM	0.6616 mL	3.3078 mL	6.6155 mL
50 mM	0.1323 mL	0.6616 mL	1.3231 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

Miltojević AB, et al. Distribution of methyl and isopropyl N-methylantranilates and their metabolites in organs of rats treated with these two essential-oil constituents. *Food Chem Toxicol.* 2019 Jun;128:68-80.

Pinheiro MM, et al. Anti-inflammatory activity of *Choisya ternata* Kunth essential oil, ternantranin, and its two synthetic analogs (methyl and propyl N-methylantranilates). *PLoS One.* 2015 Mar 25;10(3):e0121063.

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