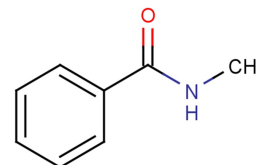


N-Methylbenzamide

Chemical Properties

CAS No.:	613-93-4
Formula:	C ₈ H ₉ NO
Molecular Weight:	135.16
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	N-Methylbenzamide is a potent phosphodiesterase 10A (PDE10A) inhibitor, with anti-cancer activity.
Targets(IC ₅₀)	PDE10A: None
In vivo	N-Methylbenzamide is active against tumor in donor female BDF mice (18-23 g)[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.399 mL	36.993 mL	73.986 mL
5 mM	1.48 mL	7.399 mL	14.797 mL
10 mM	0.74 mL	3.699 mL	7.399 mL
50 mM	0.148 mL	0.74 mL	1.48 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Gate, E. N., et al. Structural studies on bioactive compounds. 4. A structure-antitumor activity study on analogs of N-methylformamide. Journal of Medicinal Chemistry, 1986, 29(6), 1046–1052.
2. Kilburn JP, et al. N-Methylanilide and N-methylbenzamide derivatives as phosphodiesterase 10A (PDE10A) inhibitors. Bioorg Med Chem. 2013 Oct 1;21(19):6053-62.

Inhibitors · Natural Compounds · Compound Libraries

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