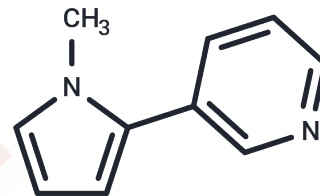


beta-Nicotyrine

Chemical Properties

CAS No. :	487-19-4
Formula:	C10H10N2
Molecular Weight:	158.2
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	beta-Nicotyrine is a tobacco alkaloids Metabolite in the liver.
Targets(IC50)	Others,Drug Metabolite

Solubility Information

Solubility	DMSO: 125 mg/mL (790.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (63.21 mM),Suspension. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (15.8 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	6.3211 mL	31.6056 mL	63.2111 mL
5 mM	1.2642 mL	6.3211 mL	12.6422 mL
10 mM	0.6321 mL	3.1606 mL	6.3211 mL
50 mM	0.1264 mL	0.6321 mL	1.2642 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

- Martinez RE, Dhawan S, Sumner W, Williams BJ. On-Line Chemical Composition Analysis of Refillable Electronic Cigarette Aerosol-Measurement of Nicotine and Nicotyrine. *Nicotine Tob Res.* 2015 Oct;17(10):1263-9. doi: 10.1093/ntr/ntu33Epub 2014 Dec 26.
- Kramlinger VM, von Weymarn LB, Murphy SE. Inhibition and inactivation of cytochrome P450 2A6 and cytochrome P450 2A13 by menthofuran, β -nicotyrine and menthol. *Chem Biol Interact.* 2012 May 30;197(2-3):87-9doi: 10.1016/j.cbi.2012.03.009. Epub 2012 Apr PubMed PMID: 22486895; PubMed Central PMCID: PMC3362486.
- Clayton P, Lu A, Bishop L. The pyrolysis of (-)-(S)-nicotine: racemization and decomposition. *Chirality.* 2010 May 5; 22(4):442-6. doi: 10.1002/chir.20760. PubMed PMID: 19644958; PubMed Central PMCID: PMC2978920.
- Denton TT, Zhang X, Cashman JR. Nicotine-related alkaloids and metabolites as inhibitors of human cytochrome P-450 2A6. *Biochem Pharmacol.* 2004 Feb 15;67(4):751-6. PubMed PMID: 14757175.

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