

(R,S)-Anatabine

Chemical Properties

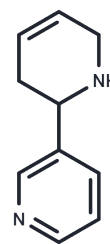
CAS No. : 2743-90-0

Formula: C₁₀H₁₂N₂

Molecular Weight: 160.22

Appearance: no data available

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



Biological Description

Description	(R,S)-Anatabine is a minor tobacco alkaloid found in the Solanaceae family and can be used for the detection of specific markers in tobacco use. (R,S)-Anatabine is an agonist of the $\alpha 4\beta 2$ and $\alpha 6/\alpha 3\beta 2\beta 4$ subunit nicotinic acetylcholine receptors (nAChRs).
Targets(IC50)	Others,AChR

Solubility Information

Solubility	DMSO: 120 mg/mL (748.97 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	6.2414 mL	31.2071 mL	62.4142 mL
5 mM	1.2483 mL	6.2414 mL	12.4828 mL
10 mM	0.6241 mL	3.1207 mL	6.2414 mL
50 mM	0.1248 mL	0.6241 mL	1.2483 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.

Reference

Lai FY, et al. Levels of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) in raw wastewater as an innovative perspective for investigating population-wide exposure to third-hand smoke. Sci Rep. 2018 Sep 5;8(1):13254.

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