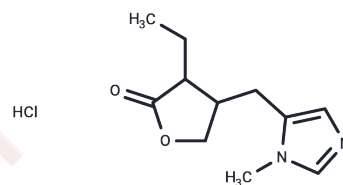


Pilocarpine Hydrochloride

Chemical Properties

CAS No. :	54-71-7
Formula:	C ₁₁ H ₁₆ N ₂ O ₂ ·HCl
Molecular Weight:	244.72
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Pilocarpine Hydrochloride (NSC 5746 HCl) , a nonselective muscarinic acetylcholine receptor agonist, is utilized to produce an experimental model of epilepsy.
Targets(IC50)	AChR
In vivo	In the parasympathetic nervous system, Pilocarpine acts as a non-selective muscarinic receptor agonist, effectively targeting the muscarinic acetylcholine subtype M3 receptors.

Solubility Information

Solubility	H ₂ O: 24.5 mg/mL (100.11 mM),Sonication is recommended. DMSO: 4.62 mg/mL (18.86 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	4.0863 mL	20.4315 mL	40.863 mL
5 mM	0.8173 mL	4.0863 mL	8.1726 mL
10 mM	0.4086 mL	2.0432 mL	4.0863 mL
50 mM	0.0817 mL	0.4086 mL	0.8173 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

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