# Data Sheet (Cat.No.T7941)



## Imipramine hydrochloride

### **Chemical Properties**

CAS No.: 113-52-0

Formula: C19H25ClN2

Molecular Weight: 316.87

Appearance: no data available

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

# **Biological Description**

Description	Imipramine hydrochloride (Imipramine HCl) is a first generation tricyclic antidepressant that acts primarily as an inhibitor of serotonin and norepinephrine transporters (Kds = 1.4 and 37 nM, respectively). Imipramine hydrochloride is reported to prevent the translocation of aSMase, inhibiting MV and exosomes secretion
Targets(IC50)	Serotonin Transporter

## **Solubility Information**

Solubility	DMSO: 100 mg/mL (315.59 mM),
	H2O: 100 mg/mL (315.59 mM),
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

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#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	3.1559 mL	15.7793 mL	31.5587 mL
5 mM	0.6312 mL	3.1559 mL	6.3117 mL
10 mM	0.3156 mL	1.5779 mL	3.1559 mL
50 mM	0.0631 mL	0.3156 mL	0.6312 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

Ma B, Shi S, Ren S, et al. Corydaline binds to a druggable pocket of hEAG1 channel and inhibits hepatic carcinoma cell viability. European Journal of Pharmacology. 2023: 176240.

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