# Data Sheet (Cat.No.T36867)



# 4-(Dimethylamino)-1-methylpyridinium (iodide)

#### **Chemical Properties**

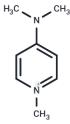
CAS No.: 7538-79-6

Formula: C8H13IN2

Molecular Weight: 264.11

Appearance: no data available

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



### **Biological Description**

Description	4-(Dimethylamino)-1-methylpyridinium is a monoquaternary pyridinium salt with
	anticholinesterase and antiproliferative activities. It inhibits cholinesterase activity in rat
	brain homogenates with a Kd value of 33 µM and yeast choline kinase (ChoK) with an
	IC50 value of 17 μM. 4-(Dimethylamino)-1-methylpyridinium also has antiproliferative
	activity against HT-29 colon cancer cells (IC50 = 2 µM).

## **Solubility Information**

Solubility PBS (pH 7.2): 10 mg/mL

DMF: 20 mg/mL Ethanol: 5 mg/mL DMSO: 10 mg/mL

(< 1 mg/ml refers to the product slightly soluble or insoluble)

#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	3.7863 mL	18.9315 mL	37.863 mL
5 mM	0.7573 mL	3.7863 mL	7.5726 mL
10 mM	0.3786 mL	1.8932 mL	3.7863 mL
50 mM	0.0757 mL	0.3786 mL	0.7573 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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