Data Sheet (Cat.No.T60222)



3-(2,6-dichlorobenzyl)-1-hexadecyl-2-methyl-1H-imidazol-3-ium iodide

Chemical Properties

CAS No.:

Formula: C27H43Cl2IN2

Molecular Weight: 593.45

Appearance: no data available

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

Biological Description

Description	3-(2,6-dichlorobenzyl)-1-hexadecyl-2-methyl-1H-imidazol-3-ium iodide is a potent inhibitor of fructose-1,6-bisphosphate aldolase.
Targets(IC50)	Others
In vivo	In mice, AMPK activity in liver can be activated by inhibiting aldolase activity. In obese mice fed with high-fat diet, 3-(2,6-dichlorobenzyl)-1-hexadecyl-2-methyl-1H-imidazol-3-ium iodide (oral administration, 1 mg/kg, once a day for two weeks) can effectively inhibit the activity of aldolase and activate the activity of AMPK in the liver of mice.

Solubility Information

Solubility	DMSO: 60 mg/mL (101.1 mM)
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6851 mL	8.4253 mL	16.8506 mL
5 mM	0.337 mL	1.6851 mL	3.3701 mL
10 mM	0.1685 mL	0.8425 mL	1.6851 mL
50 mM	0.0337 mL	0.1685 mL	0.337 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

By Deng, Xianming; Lin, Shengcai; Zhang, Chensong From PCT Int. Appl. (2018), WO 2018184561 A1 20181011.

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