Data Sheet (Cat.No.T22502)



2-TEDC

Chemical Properties

CAS No.: 132465-10-2 Formula: C16H13NO4S

Molecular Weight: 315.34

Appearance: no data available

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

Biological Description

Description	2-TEDC is a potent lipoxygenase (LOX) inhibitor with inhibitory effects on 5-LOX, 12-LOX, and 15-LOX with IC50 values of 0.09 μ M, 0.013 μ M, and 0.5 μ M, respectively.2-TEDC can be used in the study of atherosclerosis.
Targets(IC50)	Lipoxygenase
In vitro	2-TEDC exhibits potent inhibition against 5-, 12-, and 15-lipoxygenase, with IC50 values of 0.09 μ M, 0.013 μ M, and 0.5 μ M, respectively.[1]

Solubility Information

Solubility DMSO: 90.0 mg/mL (285.4 mM), Sonication is recommended.

Ethanol: 25 mM,

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1712 mL	15.8559 mL	31.7118 mL
5 mM	0.6342 mL	3.1712 mL	6.3424 mL
10 mM	0.3171 mL	1.5856 mL	3.1712 mL
50 mM	0.0634 mL	0.3171 mL	0.6342 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

Cho H, et al. Novel caffeic acid derivatives: extremely potent inhibitors of 12-lipoxygenase. J Med Chem. 1991;34 (4):1503-1505.

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