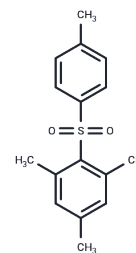


ESI-05

Chemical Properties

CAS No. : 5184-64-5
 Formula: C₁₆H₁₈O₂S
 Molecular Weight: 274.38
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	ESI-05 (NSC-116966) is a specific EPAC2 (exchange protein directly activated by cAMP 2) antagonist (IC ₅₀ : 0.4 μM). ESI-05 inhibits cAMP-mediated activation of EPAC2, as well as EAPC2, mediated Rap1 activation.
Targets(IC ₅₀)	cAMP,Acyltransferase

Solubility Information

Solubility	DMSO: 83.33 mg/mL (303.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (12.03 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6446 mL	18.2229 mL	36.4458 mL
5 mM	0.7289 mL	3.6446 mL	7.2892 mL
10 mM	0.3645 mL	1.8223 mL	3.6446 mL
50 mM	0.0729 mL	0.3645 mL	0.7289 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tsalkova T, et al. Isoform-specific antagonists of exchange proteins directly activated by cAMP. Proc Natl Acad Sci U S A. 2012 Nov 6;109(45):18613-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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