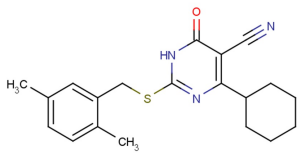
Data Sheet (Cat.No.T11234)

TargetMol
A DRUG SCREENING EXPERT

ESI-08

Chemical Properties



CAS No.:	301177-43-5
Formula:	C20H23N3OS
Molecular Weight:	353.48
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	ESI-08 selectively blocks cAMP-induced EPAC activation, but does not inhibit cAMP-mediated PKA activation. ESI-08 is a potent and selective EPAC antagonist, which can completely inhibit both EPAC1 and EPAC2 (IC50 of 8.4 μM) activity.
Targets(IC_{50})	EPAC2: 8.4 μM
In vitro	ESI-08 at 25 μM has been found not to alter cAMP-induced type I and II PKA holoenzymes activation while H89, a selective PKA inhibitor, blocked the type I or II PKA activities completely.Exchange proteins directly activated by cAMP (EPAC) are a family of guanine nucleotide exchange factors that regulate a wide variety of intracellular processes in response to second messenger cAMP.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.829 mL	14.145 mL	28.29 mL
5 mM	0.566 mL	2.829 mL	5.658 mL
10 mM	0.283 mL	1.415 mL	2.829 mL
50 mM	0.057 mL	0.283 mL	0.566 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chen H, et al. 5-Cyano-6-oxo-1,6-dihydro-pyrimidines as potent antagonists targeting exchange proteins directly activated by cAMP. Bioorg Med Chem Lett. 2012 Jun 15;22(12):4038-43.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481