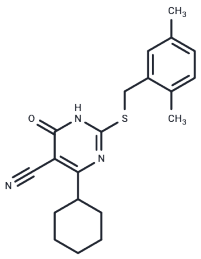
# Data Sheet (Cat.No.T11234)

TargetMol

## ESI-08

### Chemical Properties



CAS No. : 301177-43-5

Formula: C20H23N3OS

Molecular Weight: 353.48

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-08 is an effective antagonist of EPAC2 with an IC50 of 8.4 μM. ESI-08 selectively blocks cAMP-induced EPAC activation but not cAMP-mediated PKA activation. |
| Targets(IC50) | cAMP,Ras |
| In vitro | ESI-08 (25 μM) does not 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[1]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 50 mg/mL (141.45 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.829 mL | 14.1451 mL | 28.2901 mL |
| 5 mM | 0.5658 mL | 2.829 mL | 5.658 mL |
| 10 mM | 0.2829 mL | 1.4145 mL | 2.829 mL |
| 50 mM | 0.0566 mL | 0.2829 mL | 0.5658 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

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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