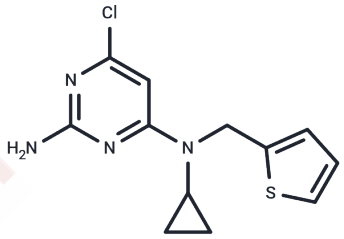
Data Sheet (Cat.No.T15787)

TargetMol

LRE1

Chemical Properties



CAS No. : 1252362-53-0

Formula: C12H13ClN4S

Molecular Weight: 280.78

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	LRE1 is a specific and allosteric inhibitor of soluble adenylyl cyclase (sAC).
Targets(IC50)	Adenylate cyclase
In vitro	LRE1 prevents sAC-dependent processes in cellular and physiological systems and facilitates exploration of the therapeutic potential of sAC inhibition. LRE1 binds to the bicarbonate activator binding site and suppresses soluble adenylyl cyclase (sAC) via a unique allosteric mechanism[1].

Solubility Information

Solubility	DMSO: 112.5 mg/mL (400.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5615 mL	17.8075 mL	35.6151 mL
5 mM	0.7123 mL	3.5615 mL	7.123 mL
10 mM	0.3562 mL	1.7808 mL	3.5615 mL
50 mM	0.0712 mL	0.3562 mL	0.7123 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

os-Espiritu L, et al. Discovery of LRE1 as a specific and allosteric inhibitor of soluble adenylyl cyclase. Nat Chem Biol. 2016 Oct;12(10):838-44.