

LRE1

Chemical Properties

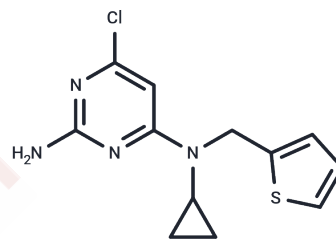
CAS No. : 1252362-53-0

Formula: C₁₂H₁₃ClN₄S

Molecular Weight: 280.78

Appearance: no data available

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



Biological Description

Description	LRE1 is a specific and allosteric inhibitor of soluble adenylyl cyclase (sAC).
Targets(IC50)	Adenylyl 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 (400.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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