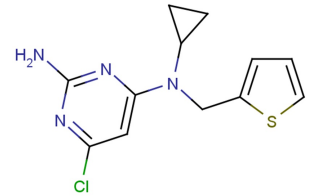


## Data Sheet (Cat.No.T15787)

LRE1

### Chemical Properties

CAS No.:	1252362-53-0
Formula:	C <sub>12</sub> H <sub>13</sub> ClN <sub>4</sub> S
Molecular Weight:	280.78
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	LRE1 is a specific and allosteric soluble adenylyl cyclase inhibitor.
Targets(IC <sub>50</sub> )	Adenylyl cyclase: None
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.

### Solubility Information

Solubility	DMSO: 125 mg/mL (445.19 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.562 mL	17.808 mL	35.615 mL
5 mM	0.712 mL	3.562 mL	7.123 mL
10 mM	0.356 mL	1.781 mL	3.562 mL
50 mM	0.071 mL	0.356 mL	0.712 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Ramos-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.

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