

I942

## Chemical Properties

CAS No. : 868145-09-9

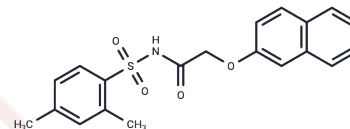
Formula: C<sub>20</sub>H<sub>19</sub>NO<sub>4</sub>S

Molecular Weight: 369.43

Store at low temperature

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	I942 is a novel, selective ACyclic nucleotide (NCN) EPAC1 agonist that activates exchange proteins to regulate inflammatory gene expression in human umbilical blood tubes and inhibit pro-inflammatory cytokine signaling associated with cardiovascular disease.
Targets(IC50)	cAMP,Others,Ras

## Solubility Information

Solubility	DMSO: 50 mg/mL (135.34 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	2.7069 mL	13.5344 mL	27.0687 mL
5 mM	0.5414 mL	2.7069 mL	5.4137 mL
10 mM	0.2707 mL	1.3534 mL	2.7069 mL
50 mM	0.0541 mL	0.2707 mL	0.5414 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

Graeme Barker, et al. The Potential of a Novel Class of EPAC-Selective Agonists to Combat Cardiovascular Inflammation. *J Cardiovasc Dev Dis*. 2017 Dec 5;4(4):22.

Parnell E, McElroy SP, Wiejak J, Baillie GL, Porter A, Adams DR, Rehmann H, Smith BO, Yarwood SJ. Identification of a Novel, Small Molecule Partial Agonist for the Cyclic AMP Sensor, EPAC1. *Sci Rep*. 2017 Mar 22;7(1):294. doi: 10.1038/s41598-017-00455-7. PubMed PMID: 28331191; PubMed Central PMCID: PMC5428521.

Roland M, Everington S. Tackling the crisis in general practice. *BMJ*. 2016 Feb 17;352:i942. doi: 10.1136/bmj.i942. PubMed PMID: 26887896.

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