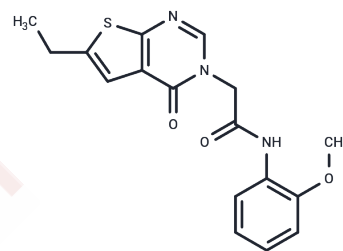


C82

Chemical Properties

CAS No. : 691862-35-8
 Formula: C17H17N3O3S
 Molecular Weight: 343.4
 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	C82 acts as an inhibitor of Mycobacterium tuberculosis (Mtb) cyclic dinucleotide phosphodiesterase (CdnP), with an IC ₅₀ value of 17.5 μM. This particular enzyme is responsible for breaking down cyclic di-AMP (c-di-AMP) into adenosine 5'-monophosphate (AMP). Notably, C82 demonstrates selectivity for Mtb CdnP over other bacterial cyclic dinucleotide phosphodiesterases (CDN PDEs) such as Yybt, RocR, and Group B Streptococcus (GBS) CdnP, as well as the mammalian CDN PDE ENPP1, and the viral CDN PDE poxin, showing effectiveness at a concentration of 200 μM.
Targets(IC50)	Others,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9121 mL	14.5603 mL	29.1206 mL
5 mM	0.5824 mL	2.9121 mL	5.8241 mL
10 mM	0.2912 mL	1.456 mL	2.9121 mL
50 mM	0.0582 mL	0.2912 mL	0.5824 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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