

Product Data Sheet

Product Name: C82
Cat. No.: GC49079

Chemical Properties

Cas. No. 691862-35-8

SMILES O=C1C2=C(N=CN1CC(NC3=C(OC)C=CC=C3)=O)SC(CC)=C2

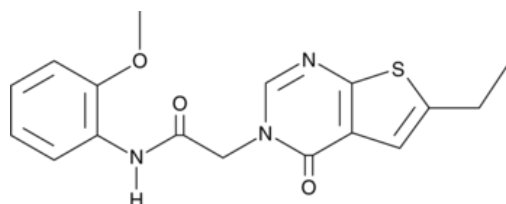
Formula C₁₇H₁₇N₃O₃S M.Wt 343.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:5): 0.16 mg/ml
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

C82 is an inhibitor of *M. tuberculosis* (Mtb) cyclic dinucleotide phosphodiesterase (CdnP; IC₅₀ = 17.5 μM), the enzyme that catalyzes the hydrolysis of cyclic di-AMP to adenosine 5'-monophosphate.¹ It is selective for Mtb CdnP over the additional bacterial CDN phosphodiesterases (PDEs) Yybt, RocR, and group B streptococcus (GBS) CdnP, the mammalian CDN PDE ENPP1, and the viral CDN PDE poxin at 200 μM.

1. Karanja, C.W., Yeboah, K.S., and Sintim, H.O. Identification of a Mycobacterium tuberculosis cyclic dinucleotide phosphodiesterase inhibitor ACS Infect. Dis. 7(2)309-317(2021)

Caution: Product has not been fully validated for medical applications. For research use only.

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