

Product Data Sheet

Product Name: CU-32
Cat. No.: GC47128

Chemical Properties

Cas. No. 2400954-16-5

SMILES IC1=CC=C(NC2=NC(N)=NC(C(OC)=O)=N2)C=C1

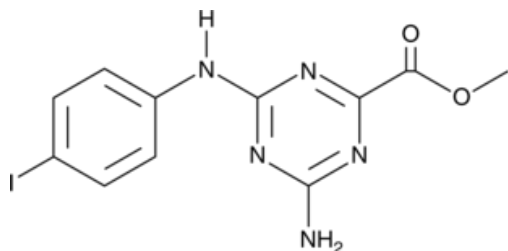
Formula C₁₁H₁₀N₅O₂ M.Wt 371.1

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:5): 0.16 mg/ml
Storage Store at -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

CU-32 is an inhibitor of cyclic GMP-AMP (cGAMP) synthase (cGAS; IC₅₀ = 0.45 μM).¹ It reduces DNA-, but not Sendai virus-, induced dimerization of IFN regulatory factor 3 in THP-1 cells, indicating selectivity for the cGAS DNA sensing pathway over the RIG-I-MAVS RNA sensing pathway. It is also selective for cGAS over toll-like receptors (TLRs) at 50 μM. CU-32 decreases IFN-stimulatory DNA-induced production of IFN-β in THP-1 cells when used at concentrations of 10, 30, and 100 μM.

1. Padilla-Salinas, R., Sun, L., Anderson, R., et al. Discovery of small-molecule cyclic GMP-AMP synthase inhibitors. *J. Org. Chem.* 85(3)1579-1600(2020)

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

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