
Product Data Sheet

Product Name: CU-3
Cat. No.: GC60115

Chemical Properties

Cas. No. 861123-84-4

SMILES O=C1N(C(S/C1=C\C=C\C2=CC=CO2)=S)NS(=O)(C3=CC=CC=C3)=O

Formula $C_{16}H_{12}N_2O_4S_3$ M.Wt 392.47

Solubility Storage

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-3 is the racemate of (5Z,2E)-CU-3. (5Z,2E)-CU-3 is a potent and selective inhibitor against the α -isozyme of DGK with an IC₅₀ value of 0.6 μ M, competitively inhibits the affinity of DGK α for ATP with a Km value of 0.48 mM. (5Z,2E)-CU-3 targets the catalytic region, but not the regulatory region of DGK α . (5Z,2E)-CU-3 has antitumoral and proimmunogenic effects, enhances the apoptosis of cancer cells and the activation of T cells[1].

[1]. Liu K, et al. A novel diacylglycerol kinase α -selective inhibitor, CU-3, induces cancer cell apoptosis and enhances immune response. J Lipid Res. 2016 Mar;57(3):368-79.

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

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