

Product Data Sheet

Product Name: CU-115
Cat. No.: GC47127

Chemical Properties

Cas. No. 2471982-20-2

SMILES O=C(NC1=CC=C(OC2=CC(C(F)(F)F)=CC(C(F)(F)F)=C2)C=C1)C3=C(I)C=CC=C3F

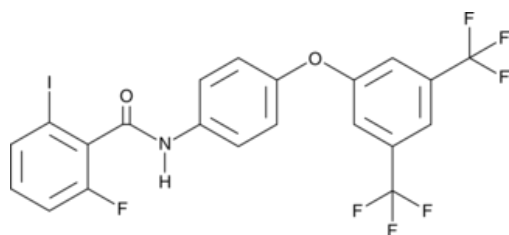
Formula C₂₁H₁₁F₇INO₂ M.Wt 569.2

Solubility DMF: 10mg/mL, DMSO: 10mg/mL, DMSO:PBS (pH 7.2) (1:5): 0.15mg/mL, Ethanol: 0.25mg/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-115 is a toll-like receptor 8 (TLR8) antagonist ($IC_{50} = 1.04 \mu M$).¹ It is selective for TLR8 over TLR7 ($IC_{50} = >50 \mu M$). CU-115 inhibits increases in type I IFN transcriptional activity induced by the ssRNA nucleic acid ligands 3p-hpRNA or G3-YSD in a luciferase reporter assay when used at concentrations of 5 and 20 μM . It decreases TNF- α and IL-1 β production induced by R-848 in THP-1 cells when used at a concentration of 5 μM .

1. Padilla-Salinas, R., Anderson, R., Sakaniwa, K., et al. Discovery of novel small molecule dual inhibitors targeting toll-like receptors 7 and 8. *J. Med. Chem.* 62(22)10221-10244 (2019)

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

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