

Product Data Sheet

Product Name: RIPK1-IN-7

Cat. No.: GC37536

Chemical Properties

Cas. No. 2300982-44-7

SMILES NC1=C2C(N(CC)C=C2C3=CC(CCN4C(CC5=CC=CC(OC(F)(F)F)=C5)=O)=C4C=C3)=NC=N1

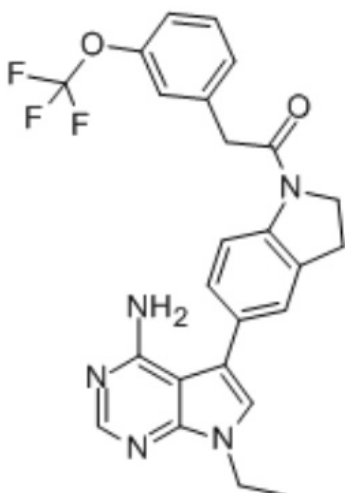
Formula C25H22F3N5O2 M.Wt 481.47

Solubility DMSO: 62.5 mg/mL (129.81 mM); Storage Store at -20°C
Water: < 0.1 mg/mL (insoluble)

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

RIPK1-IN-7 is a potent and selective RIPK1 inhibitor with a K_d of 4 nM and an enzymatic IC₅₀ of 11 nM. RIPK1-IN-7 exhibits excellent antimetastasis activity in the experimental B16 melanoma lung metastasis model[1]. IC₅₀: 11 nM (RIPK1)[1]K_d: 4 nM (RIPK1)[1]

RIPK1-IN-7 shows potent cell protection effect in the TSZ-induced HT29 cell necroptosis model with

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an EC50 of 2nM[1].RIPK1-IN-7 displays considerable activity against several other kinases, such as Flt4, TrkA, TrkB, TrkC, Axl, HRI, Mer, and MAP4K5 with IC50s of 20, 26, 8, 7, 35, 26, 29, and 27 nM, respectively[1].

[1]. Li Y, et al. Identification of 5-(2,3-Dihydro-1 H-indol-5-yl)-7 H-pyrrolo[2,3- d]pyrimidin-4-amine Derivatives as a New Class of Receptor-Interacting Protein Kinase 1 (RIPK1) Inhibitors, Which Showed Potent Activity in a Tumor Metastasis Model. J Med Chem. 2018 Dec 27;61(24):11398-11414.

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