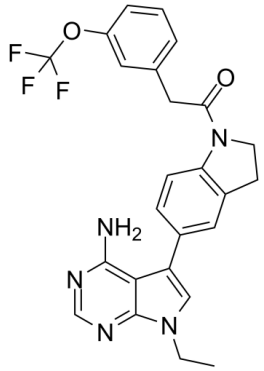
Data Sheet

Product Name:	RIPK1-IN-7
Cat. No.:	CS-0078801
CAS No.:	2300982-44-7
Molecular Formula:	C25H22F3N5O2
Molecular Weight:	481.47
Target:	RIP kinase
Pathway:	Apoptosis
Solubility:	H2O : < 0.1 mg/mL (insoluble); DMSO : 62.5 mg/mL (129.81 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

RIPK1-IN-7 is a potent and selective **RIPK1** inhibitor with a K_d of 4 nM and an enzymatic IC_{50} of 11 nM. RIPK1-IN-7 exhibits excellent antimetastasis activity in the experimental B16 melanoma lung metastasis model[1]. IC50 & Target: IC50: 11 nM (RIPK1)[1]
Kd: 4 nM (RIPK1)[1] **In Vitro:** RIPK1-IN-7 shows potent cell protection effect in the TSZ-induced HT29 cell necroptosis model with an EC_{50} 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 IC_{50}s of 20, 26, 8, 7, 35, 26, 29, and 27 nM, respectively[1].

References:

[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.

CAIndexNames:

Ethanone, 1-[5-(4-amino-7-ethyl-7H-pyrrolo[2,3-d]pyrimidin-5-yl)-2,3-dihydro-1H-indol-1-yl]-2-[3-(trifluoromethoxy)phenyl]-

SMILES:

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

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

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