MS15 TFA

Cat. No.: HY-151613A

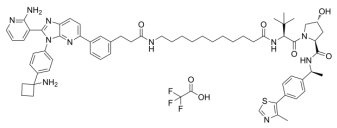
Molecular Formula: $C_{66}H_{80}F_3N_{11}O_7S$

Molecular Weight: 1228.47

Target: PROTACs; Akt

Pathway: PROTAC; PI3K/Akt/mTOR

Storage: -80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (81.40 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	0.8140 mL	4.0701 mL	8.1402 mL
5 mM	0.1628 mL	0.8140 mL	1.6280 mL
10 mM	0.0814 mL	0.4070 mL	0.8140 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MS15 TFA is a potent and selective AKT PROTAC degrader. MS15 TFA inhibits the AKT1, -2, and -3 activities, with IC_{50} values of 798 nM, 90 nM, and 544 nM, respectively[1].

IC_{50} & Target

798 nM (AKT-1), 90 nM (AKT-2), 544 nM (AKT-3)[1]

In Vivo

MS15 (75 mg/kg, IP, once) is bioavailable in mice through intraperitoneal administration[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yu X, et al. Novel Allosteric Inhibitor-Derived AKT Proteolysis Targeting Chimeras (PROTACs) Enable Potent and Selective AKT Degradation in KRAS/BRAF Mutant Cells. J Med Chem. 2022 Oct 27;65(20):14237-14260.

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

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