SLF TFA

Cat. No.: HY-114872A

CAS No.: 2378802-47-0

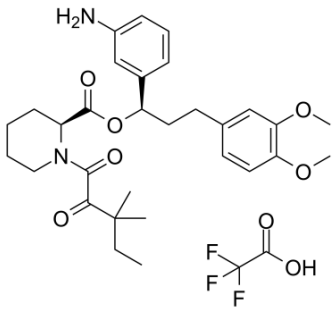
Molecular Formula: $C_{32}H_{41}F_3N_2O_8$

Molecular Weight: 638.67

Target: Ligand for Target Protein for PROTAC; FKBP

Pathway: PROTAC; Apoptosis; Autophagy; Immunology/Inflammation

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (313.15 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5658 mL	7.8288 mL	15.6575 mL
	5 mM	0.3132 mL	1.5658 mL	3.1315 mL
	10 mM	0.1566 mL	0.7829 mL	1.5658 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 5 mg/mL (7.83 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

SLF TFA is a synthetic ligand for FK506-binding protein (FKBP) with an affinity of 3.1 μM for FKBP51 and an IC_{50} of 2.6 μM for FKBP12. SLF TFA can be used in the synthesis of PROTAC[1][2][3].

In Vitro

Three scout fragments-KB02, KB03, and KB05 are fused, which cover two different electrophile groups (chloroacetamide and acrylamide) and display broad cysteine reactivity in the human proteome-to the SLF ligand that binds tightly and selectively to FKBP12, a cytosolic prolyl isomerase that has been frequently used to study ligand-induced protein degradation[3].

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

REFERENCES

[1]. Kolos JM, et al. FKBP Ligands-Where We Are and Where to Go? Front Pharmacol. 2018 Dec 5;9:1425.

[2]. Wu X, et al. Creating diverse target-binding surfaces on FKBP12: synthesis and evaluation of a rapamycin analogue library. ACS Comb Sci. 2011 Sep 12;13(5):486-95.

[3]. Zhang X, et al. Electrophilic PROTACs that degrade nuclear proteins by engaging DCAF16. Nat Chem Biol. 2019 Jul;15(7):737-746.

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