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Produktinformation

- Forschungsprodukte & Biochemikalien
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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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SLF

Cat. No.: HY-114872

CAS No.: 195513-96-3

Molecular Formula: $C_{30}H_{40}N_2O_6$

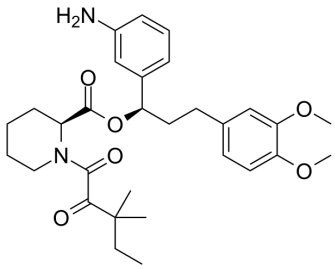
Molecular Weight: 524.65

Target: Ligands for Target Protein for PROTAC; FKBP

Pathway: PROTAC; Apoptosis; Autophagy; Immunology/Inflammation

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (190.60 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9060 mL	9.5302 mL	19.0603 mL
	5 mM	0.3812 mL	1.9060 mL	3.8121 mL
	10 mM	0.1906 mL	0.9530 mL	1.9060 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.96 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SLF 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 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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