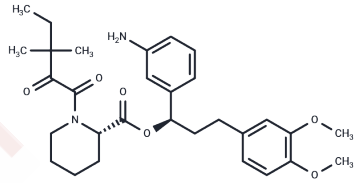
Data Sheet (Cat.No.T13888)

SLF

Chemical Properties



CAS No. :	195513-96-3
Formula:	C30H40N2O6
Molecular Weight:	524.65
Storage:	Store at low temperature Pure form: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	SLF is a synthetic ligand for FKBP12, which increases Ca2+ efflux and protein synthesis to improve skeletal muscle function, and is used in the study of central nervous system diseases and cancer.
Targets(IC50)	FKBP,Ligands for Target Protein for PROTAC,Target Protein Ligand-Linker Conjugates
In vitro	SLF is a synthetic ligand for FK506-binding protein (FKBP) with an IC50 of 2.6 μM for FKBP12 and an affinity of 3.1 μM for FKBP51. [1][2]

Solubility Information

Solubility	DMSO: 80 mg/mL (152.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.29 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.906 mL	9.5302 mL	19.0603 mL
5 mM	0.3812 mL	1.906 mL	3.8121 mL
10 mM	0.1906 mL	0.953 mL	1.906 mL
50 mM	0.0381 mL	0.1906 mL	0.3812 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kolos JM, et al. FKBP Ligands-Where We Are and Where to Go? Front Pharmacol. 2018 Dec 5;9:1425.
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.
Zhang X, et al. Electrophilic PROTACs that degrade nuclear proteins by engaging DCAF16. Nat Chem Biol. 2019 Jul; 15(7):737-746.