

WL47 TFA

Chemical Properties

CAS No. :

Formula: C76H119F3N22O18S4

Molecular Weight: 1814.16

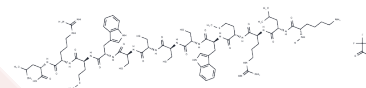
Storage:

Keep away from moisture, Store at low temperature,

Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	WL47 TFA is a selective small molecule caveolin-1 oligomer disruptor that disrupts CAV1 oligomers.
Targets(IC50)	Others
In vitro	WL47 TFA is a high-affinity caveolin-1 (CAV1) ligand (Kd=23 nM) that efficiently disrupts CAV1 oligomers. WL47 TFA exhibits higher selectivity for CAV1 compared to BSA, casein and HEWL. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (22.05 mM), Sonication is recommended. H2O: 20 mg/mL (11.02 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: 2 mg/mL (1.1 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5512 mL	2.7561 mL	5.5122 mL
5 mM	0.1102 mL	0.5512 mL	1.1024 mL
10 mM	0.0551 mL	0.2756 mL	0.5512 mL
50 mM	0.011 mL	0.0551 mL	0.1102 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

Gilliam AJ, et al. Affinity-Guided Design of Caveolin-1 Ligands for Deoligomerization. J Med Chem. 2016 Apr 28;59(8):4019-25.

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