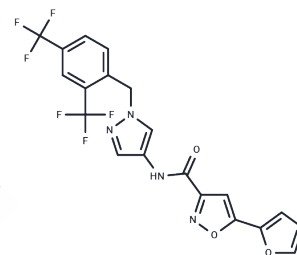


Ceapin-A7

Chemical Properties

CAS No. :	2323027-38-7
Formula:	C ₂₀ H ₁₂ F ₆ N ₄ O ₃
Molecular Weight:	470.32
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ceapin-A7, with an IC ₅₀ of 0.59 μM, selectively inhibits ATF6α signaling in response to ER stress. This compound is instrumental in investigating ATF6α's activation mechanism and its function in pathological conditions.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 100 mg/mL (212.62 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 (7.02 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	2.1262 mL	10.6311 mL	21.2621 mL
5 mM	0.4252 mL	2.1262 mL	4.2524 mL
10 mM	0.2126 mL	1.0631 mL	2.1262 mL
50 mM	0.0425 mL	0.2126 mL	0.4252 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

Ciara M Gallagher, et al. Ceapins are a new class of unfolded protein response inhibitors, selectively targeting the ATF6 α branch. eLife. 2016; 5: e11878.

Zheng M, Zhai Y, Yu Y, et al. TNF compromises intestinal bile-acid tolerance dictating colitis progression and limited infliximab response. Cell Metabolism. 2024

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