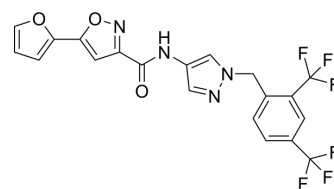


## Ceapin-A7

Cat. No.:	HY-108434		
CAS No.:	2323027-38-7		
Molecular Formula:	C <sub>20</sub> H <sub>12</sub> F <sub>6</sub> N <sub>4</sub> O <sub>3</sub>		
Molecular Weight:	470.32		
Target:	ATF6		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (212.62 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mM	
			1 mg	5 mg	10 mg
	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
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: 2.5 mg/mL (5.32 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	Ceapin-A7 is a selective blocker of ATF6α signaling in response to ER stress, with an IC <sub>50</sub> of 0.59 μM. Ceapin-A7 can be used to explore both the mechanism of activation of ATF6α and its role in pathological settings <sup>[1]</sup> .
IC <sub>50</sub> & Target	0.59 μM (ATF6α) <sup>[1]</sup>
In Vitro	Ceapin-A7 sensitizes cells to ER stress <sup>[1]</sup> . ?Ceapin (0.6-18.9 μM; 4.5 hours) selectively inhibits ATF6α but not ATF6β <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Cancer Res. 2021 Oct 15;81(20):5325-5335.
  - Cell Mol Biol Lett. 2022 Dec 16;27(1):110.
  - Am J Pathol. 2023 Oct 31:S0002-9440(23)00412-1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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