

Catestatin TFA

Cat. No.:	HY-P1271A
Molecular Formula:	C ₁₀₉ H ₁₇₄ F ₃ N ₃₇ O ₂₈ S
Molecular Weight:	2539.84
Sequence:	Arg-Ser-Met-Arg-Leu-Ser-Phe-Arg-Ala-Arg-Gly-Tyr-Gly-Phe-Arg-Gly-Pro-Gly-Leu-Gln-L eu RSMRLSFRARGYGFRGPGLQL (TFA salt)
Sequence Shortening:	RSMRLSFRARGYGFRGPGLQL
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 20 mg/mL (7.87 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
			1 mM	0.3937 mL	1.9686 mL
		5 mM	0.0787 mL	0.3937 mL	0.7875 mL
		10 mM	---	---	---
		Please refer to the solubility information to select the appropriate solvent.			
In Vivo	1. Add each solvent one by one: PBS Solubility: 7.14 mg/mL (2.81 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Catestatin TFA is a 21-amino acid residue, cationic and hydrophobic peptide. Catestatin TFA is an endogenous peptide that regulates cardiac function and blood pressure ^[1] . Catestatin TFA is a non-competitive nicotinic antagonist acting through nicotinic acetylcholine receptors (nAChRs) to inhibit catecholamine release ^[2] .
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REFERENCES

[1]. Nitish R Mahapatra. Catestatin Is a Novel Endogenous Peptide That Regulates Cardiac Function and Blood Pressure. Cardiovasc Res. 2008 Dec 1;80(3):330-8.

[2]. Sebastian Kraszewski, et al. A Molecular Dynamics Study of Catestatin Docked on Nicotinic Acetylcholine Receptors to Identify Amino Acids Potentially Involved in the Binding of Chromogranin A Fragments. Phys Chem Chem Phys. 2015 Jul 14;17(26):17454-60.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA