

Data Sheet

Product Name:	Catestatin (TFA)	
Cat. No.:	CS-0130880	
Molecular Formula:	C ₁₀₉ H ₁₇₄ F ₃ N ₃₇ O ₂₈ S	
Molecular Weight:	2539.84	
Target:	nAChR	RSMRLSFRARGYGFRGPGLQL (TFA salt)
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	
Solubility:	H ₂ O : 20 mg/mL (7.87 mM); ultrasonic and warming and heat to 60°C)	

BIOLOGICAL ACTIVITY:

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].

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.

CAIndexNames:

L-Leucine, L-arginyl-L-seryl-L-methionyl-L-arginyl-L-leucyl-L-seryl-L-phenylalanyl-L-arginyl-L-alanyl-L-arginylglycyl-L-tyrosylglycyl-L-phenylalanyl-L-arginylglycyl-L-prolylglycyl-L-leucyl-L-glutaminy- (TFA)

SMILES:

[RSMRLSFRARGYGFRGPGLQL (TFA salt)]

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

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