Data Sheet (Cat.No.TP4032)

TargetMol

Catestatin (rat)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
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	Catestatin (rat) (Rat chromogranin A367-387) is a potent, reversible, non-competitive, and non-cooperative nicotinic acetylcholine receptor (nAChR) antagonist derived from chromogranin A (A367-387). It inhibits norepinephrine release in rat PC12 pheochromocytoma cells (IC50= 1.2 μM) and blocks norepinephrine release desensitization (IC50= 0.62 μM). Catestatin (rat) exerts anti-adrenergic effects via the endothelial PI3K-AKT-eNOS pathway in rat papillary muscle and isolated cardiomyocytes. In ischemia/reperfusion myocardial cells, it maintains mitochondrial membrane potential and increases phosphorylation of AKT at S473, GSK3β at S9, PLB at T17, and eNOS at S1179. Additionally, Catestatin (rat) reverses 22Na+ uptake desensitization. This compound is useful for studying the regulation of nicotinic cholinergic receptors and catecholamine release control mechanisms.
Targets(IC50)	Akt
In vivo	When Catestatin (rat) (50 nL, 1 mM dissolved in PBS) is injected into the RVLM of normotensive rats with vagal nerve ablation, it results in sympathetic activation.

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