

## Cyclic AC253

## Chemical Properties

CAS No. :

Formula: C126H202N42O40S2

Molecular Weight:

Keep away from moisture

Storage: 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	Cyclic AC253 is an amylin receptor antagonist with an IC50 of 0.3 $\mu$ M. It offers neuroprotective effects against A $\beta$ toxicity and mitigates A $\beta$ -induced impairments in hippocampal long-term potentiation. Additionally, Cyclic AC253 is capable of penetrating the blood-brain barrier.
Targets(IC50)	Amylin Receptor
In vitro	Cyclic AC253 (0-10 $\mu$ M) safeguards neuronal cells HFN and N2a from A $\beta$ 1-42-induced cytotoxicity and apoptosis (apoptosis).
In vivo	Cyclic AC253 (200 $\mu$ g/kg, administered intraperitoneally three times per week for 10 weeks) has the potential to enhance cognitive deficits in TgCRND8 mouse models.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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