

Exendin (5-39)

Chemical Properties

CAS No. : 196109-27-0

Formula:

Molecular Weight:

TFTSDLSKQMEEEAURLFIEWLKNKGGPSSGAPPPS-NH₂

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	Exendin (5-39) is a potent antagonist of the glucagon-like peptide 1 (GLP-1) receptor that can ameliorate memory impairment in rats treated with β -amyloid protein.
Targets(IC50)	Glucagon Receptor
In vivo	Intracerebroventricular administration of Exendin (5-39) at a dosage of 0.3 μ g once daily for a week in male Wistar rats significantly augmented GLT-1 protein levels in the hippocampus. Additionally, hippocampal slices from Exendin (5-39)-treated or vehicle-treated rats demonstrated a decrease in fEPSP decay time, an enhancement in the input-output relationship, and a reduction in the paired-pulse ratio within the dentate gyrus (DG). Moreover, Exendin (5-39) was observed to inhibit long-term depression, albeit without affecting long-term potentiation in the DG. This effect was examined using an animal model comprising Wistar rats aged three weeks and those 18 days into pregnancy, underscoring Exendin (5-39)'s impact on hippocampal synaptic functions.

Reference

Kazuma Kobayashi, et al. Exendin (5-39), an antagonist of GLP-1 receptor, modulates synaptic transmission via glutamate uptake in the dentate gyrus. Brain Res. 2013 Apr 10;1505:1-10.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481