Exendin (5-39)

Cat. No.:	HY-P2497
CAS No.:	196109-27-0
Molecular Formula:	$C_{169}H_{262}N_{44}O_{54}S$
Molecular Weight:	3806.3
Sequence:	Thr-Phe-Thr-Ser-Asp-Leu-Ser-Lys-Gln-Met-Glu-Glu-Glu-Ala-Val-Arg-Leu-Phe-Ile-Glu-Trp-Leu-Lys-Asn-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH2
Sequence Shortening:	TFTSDLSKQMEEEAVRLFIEWLKNGGPSSGAPPPS-NH2
Target:	GCGR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description	Exendin (5-39) is a potent glucagon-like peptide 1 (GLP-1) receptor antagonist. Exendin (5-39) improves memory impairment in β-amyloid protein-treated rats[1].
IC_{50} & Target	IC50: GLP-1 receptor[1]
In Vivo	Exendin (5-39) (intracerebroventricular injection; 0.3 μg; once daily; 1-week) increases GLT-1 protein levels in the hippocampus of male Wistar rats. Additionally, hippocampal slices are prepared from Ex-treated or vehicle rats,Exendin (5-39) decreases fEPSP decay time and increases the input-output relation and decreased the paired-pulse ratio in the dentate gyrus (DG). Furthermore, Ex inhibits long-term depression but not long-term potentiation in the DG[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wistar rats (3 weeks old and 18 days pregnant)[1]
Dosage:	0.3 μg
Administration:	Intracerebroventricular injection; 0.3 μg; once daily; 1-week
Result:	Inhibited GLT-1 protein levels and inhibited long-term depression in rats.

CUSTOMER VALIDATION

- Neurobiol Learn Mem. 2021 Jul;182:107463.

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REFERENCES

[1]. 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.

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