

Galanin (1-30), human

Cat. No.:	HY-P1127
CAS No.:	119418-04-1
Molecular Formula:	C ₁₃₉ H ₂₁₀ N ₄₂ O ₄₃
Molecular Weight:	3157.46
Sequence:	Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-His-Ala-Val-Gly-Asn-His-Arg-Ser -Phe-Ser-Asp-Lys-Asn-Gly-Leu-Thr-Ser
Sequence Shortening:	GWTLNSAGYLLGPHAVGNHRSFSDKNGLTS
Target:	Neuropeptide Y Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light 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)

GWTLNSAGYLLGPHAVGNHRSFSDKNGLTS

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 1 mg/mL (0.32 mM; Need ultrasonic)
-----------------	---

BIOLOGICAL ACTIVITY

Description	Galanin (1-30), human is a 30-amino acid neuropeptide, and acts as an agonist of GalR1 and GalR2 receptors, with K _s of both 1 nM.
IC₅₀ & Target	K _d : 1 nM (GalR1 receptor), 1 nM (GalR2 receptor) ^[2]
In Vitro	Galanin (1-30), human (Gal ₁₋₃₀) is an agonist of GalR1 and GalR2 receptors, with K _s of both 1 nM ^[1] . Galanin (1-30), human displaces ¹²⁵ I-labeled rat galanin with a K _d of 0.5 nM. Galanin (1-30), human (hGal) causes contractions of isolated longitudinal rat fundus strips, with an ED ₅₀ of 13.8 ± 1.6 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hua XY, et al. Galanin acts at GalR1 receptors in spinal antinociception: synergy with morphine and AP-5. J Pharmacol Exp Ther. 2004 Feb;308(2):574-82.
- [2]. Schmidt WE, et al. Isolation and primary structure of pituitary human galanin, a 30-residue nonamidated neuropeptide. Proc Natl Acad Sci U S A. 1991 Dec 15;88(24):11435-9.

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

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