

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	GWTLNSAGYLLGPHAVGNHRSFSDKNGLTS
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	
Storage:	Please store the product under the recommended conditions in the COA.	

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 _i 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 _i 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] .

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.

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