

Galanin (1-16), mouse, porcine, rat TFA

Cat. No.:	HY-P1578A		
Molecular Formula:	C ₈₀ H ₁₁₇ F ₃ N ₂₀ O ₂₃		
Molecular Weight:	1783.9		
Sequence:	Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-His-Ala-Ile	GWTLNSAGYLLGPHAI (TFA salt)	
Sequence Shortening:	GWTLNSAGYLLGPHAI		
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)		

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (28.03 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.5606 mL	2.8028 mL	5.6057 mL
		5 mM		0.1121 mL	0.5606 mL	1.1211 mL
	10 mM		0.0561 mL	0.2803 mL	0.5606 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	Galanin (1-16), mouse, porcine, rat (TFA) is an agonist of the hippocampal galanin receptor, with a K _d of 3 nM.
IC₅₀ & Target	Kd: 3 nM (Galanin receptor) ^[1] .
In Vitro	Galanin (1-16), mouse, porcine, rat is an agonist of the hippocampal galanin receptor, with a K _d of 3 nM ^[1] . Galanin (1-16), mouse, porcine, rat shows high biological activity on locus coeruleus neurons ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fisone G, et al. N-terminal galanin-(1-16) fragment is an agonist at the hippocampal galanin receptor. Proc Natl Acad Sci U S A. 1989 Dec;86(23):9588-91.

[2]. Hilke S, et al. A short estrogen-responsive N-terminal galanin homologue found in rat brain and gut with antiserum raised against rat galanin(1-16). *Neurochem Res.* 2006 Feb;31(2):177-88.

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

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