

M1145

Cat. No.:	HY-P1135
CAS No.:	1172089-00-7
Molecular Formula:	C ₁₂₈ H ₂₀₅ N ₃₇ O ₃₂
Molecular Weight:	2774.23
Sequence:	Arg-Gly-Arg-Gly-Asn-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Val-Leu-Pro-Pr o-Pro-Ala-Leu-Ala-Leu-Ala-NH ₂
Sequence Shortening:	RGRGNWTLNSAGYLLGPVLPPLPPALALA-NH ₂
Target:	Neuropeptide Y Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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	M1145, a chimeric peptide, is a selective galanin receptor type 2 (GAL2) agonist, with a K _i of 6.55 nM. M1145 shows more than 90-fold higher affinity for GAL2 over GAL1 (K _i =587 nM) and a 76-fold higher affinity over GalR3 (K _i =497 nM). M1145 has an additive effect on the signal transduction of galanin ^[1] .
In Vitro	M1145 has an additive effect on the signal transduction of galanin, are concentrations of M1145 of 0.1 μM and higher all give a maximum transduction. Signal transduction was examined by assessing the ability to stimulate inositol phosphates (IP) production in CHO cells expressing GalR2. Treatment with M1145, which stimulates IP production with an EC ₅₀ of 38 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Runesson J, Saar I, Lundström L, Järv J, Langel U. A novel GalR2-specific peptide agonist. *Neuropeptides*. 2009;43(3):187-192.

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

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