

M617 TFA

Cat. No.:	HY-P1131A
Molecular Formula:	C ₁₁₄ H ₁₆₂ F ₃ N ₂₉ O ₃₀
Molecular Weight:	2475.67
Sequence:	Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Gln-Pro-Pro-Gly-Phe-Ser-Pro-N GWTLNSAGYLLGPQPPGFSPFR-NH ₂ (TFA salt) H ₂
Sequence Shortening:	GWTLNSAGYLLGPQPPGFSPFR-NH ₂
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

H₂O : 33.33 mg/mL (13.46 mM; Need ultrasonic)

Concentration	Solvent		Mass		
	1 mg	5 mg	10 mg		
Preparing Stock Solutions	1 mM	0.4039 mL	2.0197 mL	4.0393 mL	
	5 mM	0.0808 mL	0.4039 mL	0.8079 mL	
	10 mM	0.0404 mL	0.2020 mL	0.4039 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

M617 TFA is a selective galanin receptor 1 (GAL1) agonist, with K_is of 0.23 and 5.71 nM for GAL1 and GAL2, respectively. M617 TFA, acting through its central GAL1, can promote GLUT4 expression and enhance GLUT4 content in the cardiac muscle of type 2 diabetic rats^{[1][2]}.

REFERENCES

- [1]. Lundström, L., et al. A Galanin Receptor Subtype 1 Specific Agonist. *Int J Pept Res Ther* 11, 17–27 (2005).
- [2]. Fang P, et al. Central injection of GalR1 agonist M617 facilitates GLUT4 expression in cardiac muscle of type 2 diabetic rats. *Exp Gerontol.* 2015;65:85-89.

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

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