

## M617 TFA

<b>Cat. No.:</b>	HY-P1131A
<b>Molecular Formula:</b>	C <sub>114</sub> H <sub>162</sub> F <sub>3</sub> N <sub>29</sub> O <sub>30</sub>
<b>Molecular Weight:</b>	2475.67
<b>Sequence:</b>	Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Gln-Pro-Pro-Gly-Phe-Ser-Pro-NH <sub>2</sub> GWTLNSAGYLLGPQPPGFSPFR-NH <sub>2</sub> (TFA salt)
<b>Sequence Shortening:</b>	GWTLNSAGYLLGPQPPGFSPFR-NH <sub>2</sub>
<b>Target:</b>	Neuropeptide Y Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	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<sub>2</sub>O : 33.33 mg/mL (13.46 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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<sub>i</sub>s 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<sup>[1][2]</sup>.

### 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.

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

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