

M617

Cat. No.:	HY-P1131		
CAS No.:	860790-38-1		
Molecular Formula:	C ₁₁₂ H ₁₆₁ N ₂₉ O ₂₈		
Molecular Weight:	2361.65	GWTLSAGYLLGPQPPGFSPFR-NH ₂	
Sequence:	Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Gln-Pro-Pro-Gly-Phe-Ser-Pro-NH ₂		
Sequence Shortening:	GWTLSAGYLLGPQPPGFSPFR-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

DMSO : 100 mg/mL (42.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.4234 mL	2.1172 mL	4.2343 mL
	5 mM	0.0847 mL	0.4234 mL	0.8469 mL
	10 mM	0.0423 mL	0.2117 mL	0.4234 mL

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

BIOLOGICAL ACTIVITY

Description

M617 is a selective galanin receptor 1 (GAL1) agonist, with K_s of 0.23 and 5.71 nM for GAL1 and GAL2, respectively. M617, 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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