Galantide TFA

MedChemExpress

®

HY-P0262A				
$C_{106}H_{152}F_{3}N_{25}O_{28}S$				
2313.55				
Neuropeptide Y Receptor GWTLNSAGYLLGPQQFFGLM-NH ₂ (TFA salt)				
GPCR/G Protein; Neuronal Signaling				
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)				
	HY-P0262A C ₁₀₆ H ₁₅₂ F ₃ N ₂₅ O ₂₈ S 2313.55 Neuropeptide Y Reco GPCR/G Protein; Neu Sealed storage, awa Powder -80°C -20°C * In solvent : -80°C, 6 and light, under nitr	HY-P0262A C ₁₀₆ H ₁₅₂ F ₃ N ₂₅ O ₂₈ S 2313.55 Neuropeptide Y Receptor GPCR/G Protein; Neuronal Signaling 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)		

SOLVENT & SOLUBILITY

In Vitro DMSO : 100 mg/ml H ₂ O : < 0.1 mg/mL Preparing Stock Solutions	DMSO : 100 mg/mL (43.22 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (ultrasonic;adjust pH to 2 with HCl) (insoluble)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	0.4322 mL	2.1612 mL	4.3224 mL	
		5 mM	0.0864 mL	0.4322 mL	0.8645 mL	
		10 mM	0.0432 mL	0.2161 mL	0.4322 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.08 mM); Clear solution 					

DIOLOGICAL ACTIV				
Description	Galantide TFA is a reversible and non-specific galanin (GAL) receptor antagonist. Galantide TFA dose-dependently shows antagonism to galanin-induced K ⁺ conductance with an IC ₅₀ value of 4 nM. Galantide TFA can be used for the research of neurological disease and hormone metabolism research ^{[1][2]} .			
In Vitro	Galantide TFA (0.1-10000 nM) inhibits the galanin-induced activation of the K ⁺ conductance with an IC ₅₀ value of 4 nM ^[1] . Galantide TFA (0.1-10000 nM) dose-dependently inhibits the voltage-dependent Ba ²⁺ current with an IC ₅₀ value of 16 nM ^[1] . Galantide TFA (0.1-10000 nM) shows a maximum inhibition of approximately 40% to voltage-dependent Ba ²⁺ current ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

In Vivo	Galantide TFA (5 nm; icv, once) inhibits luteinizing hormone (LH) release of ovariectomized (OVX) rats ^[2] . Galantide TFA (1 and 5 nm; iv, for 3 times, at 1300, 1400 and 1500 h) decreases steroid-induced luteinizing hormone (LH) surge in estradiol benzoate (EB) primed of ovx rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Adult female Crl:CD(SD)BR ovarian steroid-primed ovariectomized (OVX) rats $^{[2]}$	
	Dosage:	5 nm	
	Administration:	Intracerebroventricularly (icv) injection; 5 nm, 60 min before GAL	
	Result:	Blocked GAL-induced LH release.	

REFERENCES

[1]. Mulvaney JM, et al. Galantide distinguishes putative subtypes of galanin receptors in mudpuppy parasympathetic neurons. Eur J Pharmacol. 1995 Dec 4;287(1):97-100.

[2]. Sahu A, et al. Role of galanin in stimulation of pituitary luteinizing hormone secretion as revealed by a specific receptor antagonist, galantide. Endocrinology. 1994 Feb;134(2):529-36.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA