PG106 TFA

Cat. No.: HY-P1209A

Molecular Formula: $C_{53}H_{70}F_3N_{13}O_{11}$

Molecular Weight: 1122.2

Sequence Shortening: Ac-{Nle}-D-{Bal}-{D-Nal}-RWK-NH2 (Lactam bridge:Asp2-Lys7)

Ac-{Nle}-D-{Bal}-{D-Nal}-RWK-NH_2 (Lactam bridge:Asp_2-Lys_7) (TFA salt)

Target: Melanocortin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (22.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8911 mL	4.4555 mL	8.9111 mL
	5 mM	0.1782 mL	0.8911 mL	1.7822 mL
	10 mM	0.0891 mL	0.4456 mL	0.8911 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.23 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.23 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PG106 TFA is a potent and selective human melanocortin 3 (hMC3) receptor antagonist (IC_{50}= 210 nM) and has noactivity at hMC4 receptors (EC_{50}=9900 nM) and hMC5 receptor[1].

IC_{50} & Target

MC3R

REFERENCES

[1]. Paolo Grieco, et al. Further structure-activity studies of lactam derivatives of MT-II and SHU-9119: their activity and selectivity at human melanocortin receptors 3, 4, and 5. Peptides

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