PG-931 TFA

Cat. No.:	HY-P1208A
Molecular Formula:	$C_{61}H_{86}F_3N_{15}O_{13}$
Molecular Weight:	1294.42
Sequence Shortening:	Ac-{Nle}-DP-{D-Phe}-RWKPV-NH2 (Lactam bridge:Asp2-Lys7)
Target:	Melanocortin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

PG-931 TFA, an analog of SHU 9119 (HY-P0227), is a potent melanocortin 4 (MC4) receptor (IC_{50}=0.58 nM) agonist and is more selective than for the hMC3R (IC_{50}=55 nM) or the hMC5R(IC_{50}=2.4 nM). PG-931 TFA can reverse haemorrhagic shock and prevent multiple organ damage in vivo[2].

In Vivo

PG-931 (intravenous injection; 13-10^8 nmol/kg; single dose) produces a dose-dependent restoration of cardiovascular and respiratory functions, and improved survival in Wistar rats with haemorrhagic shock[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wistar rats[1]
Dosage:	13-10^8 nmol/kg
Administration:	Intravenous injection; single dose
Result:	Exhibits an anti-shock effect occurred at nanomolar doses.

REFERENCES

[1]. D Giuliani, et al. Selective melanocortin MC4 receptor agonists reverse haemorrhagic shock and prevent multiple organ damage. Br J Pharmacol

[2]. P Grieco, et al. Extensive structure-activity studies of lactam derivatives of MT-II and SHU-9119: their activity and selectivity at human melanocortin receptors 3, 4, and 5. J Pept Res

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