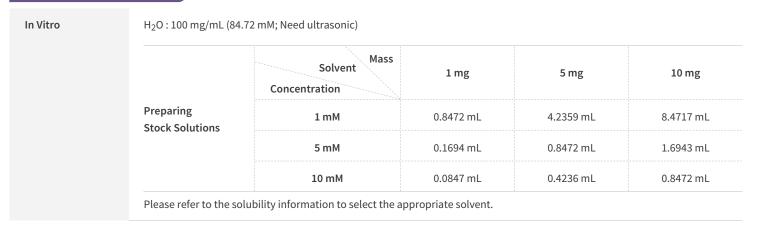
## Product Data Sheet

## PG-931

Cat. No.:	HY-P1208	
CAS No.:	667430-81-1	
Molecular Formula:	C <sub>59</sub> H <sub>85</sub> N <sub>15</sub> O <sub>11</sub>	
Molecular Weight:	1180.4 Ac	-{Nle}-DP-{D-Phe}-RWKPV-NH2 (Lactam bridge:Asp2-Lys7)
Sequence Shortening:	Ac-{Nle}-DP-{D-Phe}-RWKPV-NH2 (Lactam bridge:Asp2-Lys7)	
Target:	Melanocortin Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	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



BIOLOGICAL ACTIV	
Description	PG-931, an analog of SHU 9119 (HY-P0227), is a potent melanocortin 4 (MC4) receptor (IC <sub>50</sub> =0.58 nM) agonist and is more selective than for the hMC3R (IC <sub>50</sub> =55 nM) or the hMC5R (IC <sub>50</sub> =2.4 nM). PG-931 can reverse haemorrhagic shock and prevent multiple organ damage in vivo <sup>[2]</sup> .
IC <sub>50</sub> & Target	IC50: 0.58 nM (melanocortin 4 receptor) IC50: 2.4 nM (melanocortin 5 receptor) IC50: 55 nM (melanocortin 3 receptor) <sup>[1]</sup>
In Vivo	PG-931 (intravenous injection; 13-10 <sup>8</sup> nmol/kg; single dose) produces a dose-dependent restoration of cardiovascular and respiratory functions, and improved survival in Wistar rats with haemorrhagic shock <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wistar rats <sup>[2]</sup>
Dosage:	13-10 <sup>8</sup> nmol/kg
Administration:	Intravenous injection; single dose
Result:	Exhibitd 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

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

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