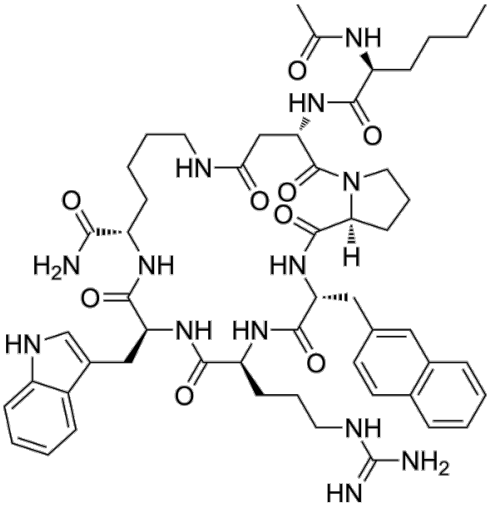
Product Data Sheet

Product Name: PG-901
Cat. No.: GC79292

Chemical Properties

Cas. No.	322639-20-3		
Formula	$C_{53}H_{71}N_{13}O_9$	M.Wt	1034.21
Solubility	DMSO: 100 mg/mL (96.69 mM; Need ultrasonic)	Storage	Sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

PG-901 is a full, selective MC5R agonist (EC 50 = 0.072 nM for hMC5R). PG-901 is also a full

antagonist at the hMC3R and the hMC4R (K b: 1.0 nM and 0.53 nM, respectively). PG-901 significantly diminishes Cytokines (IL-1α, IL-1β, IL-6). PG-901 increases glucose tolerance, reduces blood glucose, decreases retinal damage [1] [2] [3].

References:

[1]. Grieco P, et al. Design and synthesis of highly potent and selective melanotropin analogues of SHU9119 modified at position 6. Biochem Biophys Res Commun. 2002 Apr 12;292(4):1075-80.
[2]. Swan P, et al. α-Melanocyte Stimulating Hormone Reduces Blood Glucose Across Species. bioRxiv, 2025: 2025.03. 26.645414.
[3]. Rossi S, et al. Activation of Melanocortin Receptors MC 1 and MC 5 Attenuates Retinal Damage in Experimental Diabetic Retinopathy. Mediators Inflamm. 2016;2016:7368389.