

## Product Data Sheet

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

### Chemical Properties

Cas. No. 322639-20-3

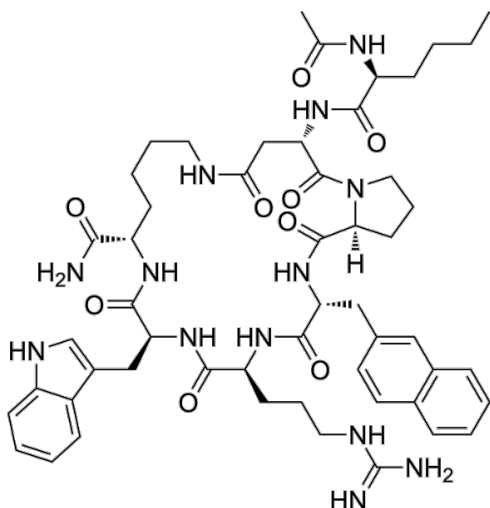
Formula  $C_{53}H_{71}N_{13}O_9$  M.Wt 1034.21

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<sub>50</sub> = 0.072 nM for hMC5R). PG-901 is also a full

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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antagonist at the hMC3R and the hMC4R ( K b: 1.0 nM and 0.53 nM, respectively). PG-901 significantly diminishes Cytokines ( IL-1 $\alpha$ , IL-1 $\beta$ , 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.  $\alpha$ -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.

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