

Product Data Sheet

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

Chemical Properties

Cas. No. 322639-20-3

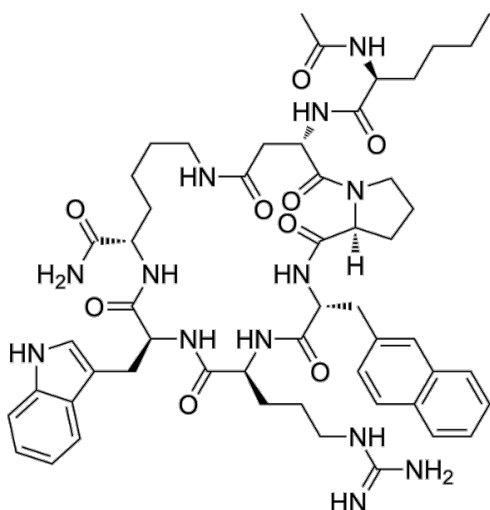
Formula $C_{53}H_{71}N_{13}O_9$ M.Wt 1034.21

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 (EC₅₀ = 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.

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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 α , IL-1 β , 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.

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