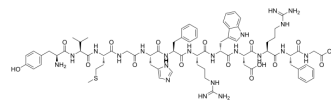


[D-Trp8]- γ -MSH

Cat. No.: HY-P1217
CAS No.: 321351-81-9
Molecular Formula: C₇₄H₉₉N₂₁O₁₆S
Molecular Weight: 1570.77
Sequence: Tyr-Val-Met-Gly-His-Phe-Arg-[d-Trp]-Asp-Arg-Phe-Gly
Sequence Shortening: YVMGHFR-[d-Trp]-DRFG
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

In Vitro

H₂O : 12.5 mg/mL (7.96 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent | | Mass | | |
|---------------------------|---------------|--|-----------|-----------|-----------|
| | Concentration | | 1 mg | 5 mg | 10 mg |
| | 1 mM | | 0.6366 mL | 3.1832 mL | 6.3663 mL |
| | 5 mM | | 0.1273 mL | 0.6366 mL | 1.2733 mL |
| | 10 mM | | --- | --- | --- |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

[D-Trp8]- γ -MSH is a potent and selective agonist of melanocortin 3 (MC3) receptor, with IC₅₀s of 6.7 nM, 600 nM and 340 nM for hMC3, hMC4 and hMC5, respectively in CHO cells. [D-Trp8]- γ -MSH could provide protection against multiple inflammatory disorders such as rheumatoid arthritis and colitis^{[1][2]}.

IC₅₀ & Target

MC3R

REFERENCES

[1]. Grieco P, et, al. D-Amino acid scan of gamma-melanocyte-stimulating hormone: importance of Trp(8) on human MC3 receptor selectivity. J Med Chem. 2000 Dec 28; 43(26): 4998-5002.

[2]. Kadiri JJ, et, al. Melanocortin 3 receptor activation with [D-Trp8]- γ -MSH suppresses inflammation in apolipoprotein E deficient mice. Eur J Pharmacol. 2020 Aug 5; 880:173186.

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

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