

Product Data Sheet

Product Name: VPM-p15

Cat. No.: GC74319

Chemical Properties

Cas. No.

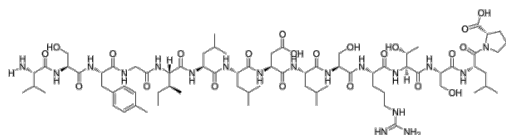
Formula $C_{75}H_{126}N_{18}O_{22}$ M.Wt 1631.91

Solubility DMSO : 15 mg/mL (9.19 mM; Need ultrasonic and warming) 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

VPM-p15 is a peptide agonist optimized for the adhesion G protein-coupled receptor GPR64 (also known as ADGRG2 or HE6). The affinity of VPM-p15 with GPR64 is significantly higher than that of the original p15 peptide. The cAMP level induced by VMM-P15 increased significantly, activated GPR64, and triggered downstream Gs, Gq, and G12/13 signaling. VPM-p15 can be used to study the activation mechanism of adherent GPCR family members.

References:

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

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[1]. Sun Y, et al. Optimization of a peptide ligand for the adhesion GPCR ADGRG2 provides a potent tool to explore receptor biology[J]. Journal of Biological Chemistry, 2021, 296.

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