

Product Data Sheet

Product Name: Nociceptin (1-13)NH₂

Cat. No.: GC12316

Chemical Properties

Cas. No. 178064-02-3

Chemical Name (S,Z)-6-amino-N-((S,Z)-1-(((S,Z)-1-(((S,Z)-1-(((S)-6-amino-1-hydroxy-1-iminohexan-2-yl)imino)-5-guanidino-1-hydroxypentan-2-yl)imino)-1-hydroxypropan-2-yl)imino)-1,3-dihydroxypropan-2-yl)-2-((Z)-((2S,3Z,5S,6Z,9Z,11S,12Z,14S,15Z,18Z,21Z,23S)-23-amino-14-be

SMILES C[C@@](/N=C(O)/C/N=C(O)/[C@](/N=C(O)/[C@](/N=C(O)/C/N=C(O)/C/N=C(O)/[C@](N)([H])CC1=CC=CC=C1)([H])CC2=CC=CC=C2)([H])[C@@](O)([H])C([H])/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N/[C@@](/C(O)=N/[C@@](C(O)=N)([H])CCCN)([H])CCNC(N)=N)(

Formula C₆₁H₁₀₀N₂₂O₁₅ M.Wt 1381.59

Solubility Soluble to 0.67 mg/ml in 20% acetonitrile Storage Desiccate at -20°C

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

Nociceptin (1-13), amide is a potent ORL1 (OP4) receptor agonist with a pEC₅₀ of 7.9 for mouse vas deferens and a K_i of 0.75 nM for binding to rat forebrain membranes[1][2].

References:

[1]. Varani K, et al. Nociceptin receptor binding in mouse forebrain membranes: thermodynamic characteristics and structure activity relationships. Br J Pharmacol. 1998 Dec;125(7):1485-90.

[2]. Calo' G, et al. Pharmacology of nociceptin and its receptor: a novel therapeutic

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

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target. Br J Pharmacol. 2000 Apr;129(7):1261-83.

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