

Product Data Sheet

Product Name: ANQ 11125

Cat. No.: GC15030

Chemical Properties

Cas. No. 153966-48-4

Chemical Name ((2S,3Z,5S,6Z,8S,9Z,11S,12Z,14S,15Z,17S)-17-((Z)-((3Z,5S,6Z,8S,9Z,11S,12Z,14S,15Z,17S,18Z,20S,21Z,23S)-23-amino-11,17-dibenzyl-14-((S)-sec-butyl)-1,4,7,10,13,16,19,22-octahydroxy-5-(4-hydroxybenzyl)-8-((R)-1-hydroxyethyl)-20-isopropyl-24-phenyl-3,6,9,12,15

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

Formula C₈₆H₁₂₅N₁₉O₂₁

M.Wt

1761.05

Solubility Soluble in water

Storage

Store 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

ANQ 11125 is a selective antagonist of motilin receptor with pKd of 8.24 [1].

Motilin receptor is a G protein-coupled receptor for motilin and stimulates contraction of gut smooth muscle.

ANQ 11125 is a selective motilin receptor antagonist. The affinity of ANQ 11125 for motilin receptor is about 10 times less than motilin [1]. In rabbit antral smooth muscle tissue, ANQ-11125 bound to motilin receptor with pKd value of 8.16. While, ANQ-11125 didn't induce contractions of rabbit duodenum. ANQ-11125 (10⁻⁵ M) induced contractile

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

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response by 29% compared to ACh [2].

References:

- [1]. Depoortere I, Macielag MJ, Galdes A, et al. Antagonistic properties of [Phe³,Leu¹³]porcine motilin. Eur J Pharmacol, 1995, 286(3): 241-247.
- [2]. Peeters TL, Depoortere I, Macielag MJ, et al. The motilin antagonist ANQ-11125 blocks motilide-induced contractions in vitro in the rabbit. Biochem Biophys Res Commun, 1994, 198(2): 411-416.

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