

Product Data Sheet

Product Name: Orexin B, human- 13 C 18 , 15 N 3 TFA

Cat. No.: GC80838

Chemical Properties

Cas. No.

Formula $C_{105}^{13}C_{18}H_{212}N_{41}^{15}N_3O_{35}S \cdot xC_2$ M.Wt 2920.22
HF₃O₂

Solubility 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

Arg-Ser-Gly-Pro-Pro-Gly-[Leu-
13C₆,15N]-Gln-Gly-Arg-[Leu-13C₆,15N]-
Gln-Arg-[Leu-13C₆,15N]-Leu-Gln-Ala-
Ser-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-
Met-NH₂ (TFA salt)

Background

Orexin B, human - 13 C 18, 15 N 3 (Human orexin B- 13 C 18, 15 N 3) TFA is the 13 C- and 15 N-labeled Orexin B, human. Orexin B, human is the agonist for Orexin Receptor, with K_i s of 420 nM and 36 nM for OX1 and OX2. Orexin B, human participates in the regulation of appetite, wakefulness, cardiovascular function and neuroendocrine [1].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration

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

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has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

[1]. Smart D, et al. Orexins: a new family of neuropeptides. Br J Anaesth. 1999 Nov;83(5):695-7.

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