Product Data Sheet

Product Name: Orexin B, human- 13 C 18 , 15 N 3 TFA
Cat. No.: GC80838

Chemical Properties

Cas. No.			
Formula	$C_{10513}C_{18}H_{212}N_{4115}N_3O_{35}S{\cdot}xC_2HF_3O_2$	M.Wt	2920.22
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-$13C_6$,15N}-Gln-Gly-Arg-{Leu-$13C_6$,15N}-Gln-Arg-{Leu-$13C_6$,15N}-Leu-Gln-Ala-Ser-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Met-NH_2 (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

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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.