

## Product Data Sheet

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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  
HF<sub>3</sub>O<sub>2</sub>

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<sub>6</sub>,15N}-Gln-Gly-Arg-{Leu-13C<sub>6</sub>,15N}-  
Gln-Arg-{Leu-13C<sub>6</sub>,15N}-Leu-Gln-Ala-  
Ser-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-  
Met-NH<sub>2</sub> (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<sub>i</sub> 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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