

Analytical Data Sheet

Lot number **1000008696**
not for drug use

Catalog number H-8336.0100
Product number 4103871.0100
Product ($^{13}\text{C}_6,^{15}\text{N}$]Leu^{3,16,19,20,31,33}) - Orexin A (human, mouse, rat) trifluoroacetate salt
 Pyr- Pro- [$^{13}\text{C}_6,^{15}\text{N}$]Leu- Pro- Asp- Cys- Cys- Arg- Gln- Lys- Thr- Cys- Ser- Cys- Arg- [$^{13}\text{C}_6,^{15}\text{N}$]Leu- Tyr- Glu- [$^{13}\text{C}_6,^{15}\text{N}$]Leu- [$^{13}\text{C}_6,^{15}\text{N}$]Leu- His- Gly- Ala- Gly- Asn- His- Ala- Ala- Gly- Ile- [$^{13}\text{C}_6,^{15}\text{N}$]Leu- Thr- [$^{13}\text{C}_6,^{15}\text{N}$]Leu- NH_2 trifluoroacetate salt
 (Disulfide bonds between Cys⁶ and Cys¹²/Cys⁷ and Cys¹⁴)
Molecular formula $\text{C}_{116}^{13}\text{C}_{36}\text{H}_{243}\text{N}_{41}^{15}\text{N}_6\text{O}_{44}\text{S}_4$
Relative molecular mass 3602.72

Tests	Results
Appearance	white powder
Identification (MALDI-MS)	3603.45
Amino acid analysis	Asx 2.01 (2) Gly 3.13 (3) Tyr 0.94 (1) Thr 2.82 (2) Ala 3.11 (3) His 2.10 (2) Ser 0.99 (1) Cys* 0.53 (4) Lys 0.98 (1) Glx 2.77 (3) Ile 0.92 (1) Arg 1.94 (2) Pro 1.96 (2) Leu 6.11 (6) *Partially destroyed during acid hydrolysis
Solubility	soluble in 1% Acetic acid at 1mg/mL
Purity (HPLC)	95.3%
Assay (AAA)	79.9%
Date of manufacture	February 10, 2017

Latest update: November 14, 2018

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