

# Analytical Data Sheet

Lot number

## 1010131

not for drug use

Catalog Number

H-6474.0050

Product number

4054142.0050

Product

**Nesfatin- 1 (mouse) trifluoroacetate salt**

H- Val- Pro- Ile- Asp- Val- Asp- Lys- Thr- Lys- Val- His- Asn- Thr- Glu- Pro- Val- Glu- Asn- Ala- Arg- Ile- Glu- Pro- Pro- Asp- Thr- Gly- Leu- Tyr- Tyr- Asp- Glu- Tyr- Leu- Lys- Gln- Val- Ile- Glu- Val- Leu- Glu- Thr- Asp- Pro- His- Phe- Arg- Glu- Lys- Leu- Gln- Lys- Ala- Asp- Ile- Glu- Glu- Ile- Arg- Ser- Gly- Arg- Leu- Ser- Gln- Glu- Leu- Asp- Leu- Val- Ser- His- Lys- Val- Arg- Thr- Arg- Leu- Asp- Glu- Leu- OH trifluoroacetate salt

Molecular formula

$C_{424}H_{683}N_{117}O_{137}$

Relative molecular mass

9611.79

| Tests                           | Results   |
|---------------------------------|---|
| <b>Appearance</b>               | white lyophilisate  |
| <b>Identification (ESI-MS)</b>  | m = 9611.7u (average mass)  |
| <b>Amino acid analysis</b>      | Ala 2.15 (2) Val** 6.85 (8) Ile** 4.18 (5)<br>Leu 9.13 (9) Tyr 2.95 (3) Phe 0.93 (1)<br>His 2.82 (3) Lys 5.76 (6) Arg 5.80 (6)<br>Thr 4.54 (5) Ser* 2.59 (3)<br>Pro 4.80 (5) Gly 2.14 (2)<br><br>Asx 10.10 (10), Glx 14.42 (14)<br>* partially destroyed during acid hydrolysis<br>** Valine and isoleucine values low due to the resistance of the Val-Ile bond to acid hydrolysis |
| <b>Solubility</b>               | soluble in 0.1 % TFA in water   |
| <b>Purity (HPLC)</b>            | 98.3% (TFA)<br>98.2% (TEAP)   |
| <b>Assay (AAA)</b>              | 81.0%   |
| <b>General comment</b>          | product supplied as a trifluoroacetate salt   |
| Latest update: October 24, 2008 | <b>Analytical Data Sheet</b><br>Lot number <b>1010131</b>   |