

## CERTIFICATE OF ANALYSIS

Hexarelin

|                     |                                                    |                   |                                                                |
|---------------------|----------------------------------------------------|-------------------|----------------------------------------------------------------|
| Product name        | Hexarelin                                          | Molecular formula | C <sub>47</sub> H <sub>58</sub> N <sub>12</sub> O <sub>6</sub> |
| Batch number        | -                                                  | Molecular weight  | 887.04 g/mol                                                   |
| CAS number          | 140703-51-1                                        | Quantity          | 2 mg                                                           |
| Date of manufacture | -                                                  | PubChem CID       | 6918297                                                        |
| Storage             | Powder: -20°C 3 years; 4°C 2 years; 15°C 3 months. | Storage           | In solvent: -80°C 6 months; -20°C 1 month; 10°C 1 week         |

### Amino acid sequence

His-(D-2-Me-Trp)-Ala-Trp-(D-Phe)-Lys-NH<sub>2</sub>  
 6 residues

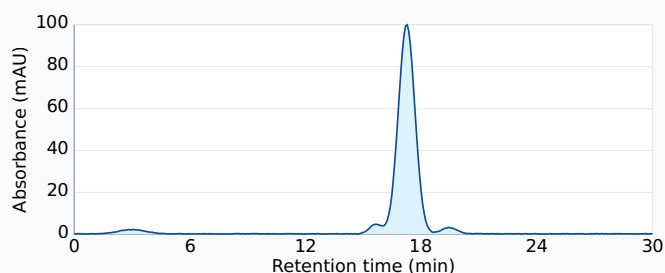
### Analytical results

| Test parameter                  | Method                    | Specification             | Result         | Status |
|---------------------------------|---------------------------|---------------------------|----------------|--------|
| Appearance                      | Visual                    | White to off-white powder | Conforms       | ✓      |
| Peptide purity                  | RP-HPLC (C18)             | ≥ 98.5%                   | 99.21%         | ✓      |
| Molecular weight confirmation   | ESI-MS                    | 887.04 ± 1.0 Da           | Conforms       | ✓      |
| Water content                   | Karl Fischer              | ≤ 10.0%                   | 5.1%           | ✓      |
| Counter-ion content             | HPLC                      | Acetate salt (report)     | 9.9% (acetate) | ✓      |
| Total related substances        | RP-HPLC                   | ≤ 2.0%                    | 0.79%          | ✓      |
| Largest single impurity         | RP-HPLC                   | ≤ 1.0%                    | 0.6%           | ✓      |
| Residual solvent — Acetonitrile | GC-HS                     | ≤ 410 ppm                 | < 410 ppm      | ✓      |
| Residual solvent — DCM          | GC-HS                     | ≤ 600 ppm                 | < 600 ppm      | ✓      |
| Residual solvent — DMF          | GC-HS                     | ≤ 880 ppm                 | < 880 ppm      | ✓      |
| Bacterial endotoxins            | LAL kinetic turbidimetric | < 5 EU/mg                 | < 0.5 EU/mg    | ✓      |
| Bioburden                       | USP <61>                  | < 100 CFU/g (USP <61>)    | < 10 CFU/g     | ✓      |

### HPLC chromatogram

RP-HPLC C18

UV detection at 220 nm — gradient 10–70% ACN in 0.1% TFA over 30 min — flow 1.0 mL/min

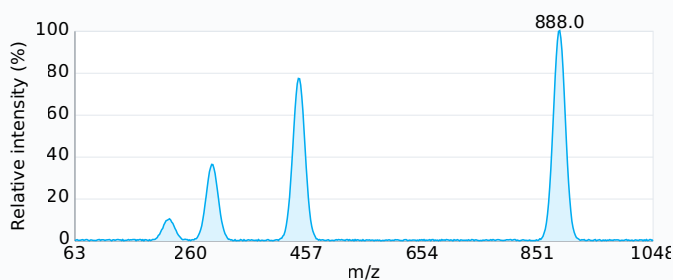


Main peak RT 17.25 min · Area 99.21% · Largest imp 0.6% · Total related 0.79%

### Mass spectrum

ESI-MS positive

Electrospray ionisation — positive mode



Observed [M+H]<sup>+</sup> 888.0 · MW 887.04 g/mol

✓ Overall result: Conforms to specification

Results relate only to the batch tested, by the stated methods at time of release, and are provided in good faith without warranty — OP Labs does not guarantee the accuracy or completeness of the results. Storage figures are recommendations, not stability data. Research use only.