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CERTIFICATE OF ANALYSIS

Hexarelin Batch [redacted] March 2025

Product name	**Hexarelin**	Molecular formula	**$C_{47}H_{58}N_{12}O_6$**
Batch number	[redacted]	Molecular weight	**887.04 g/mol**
CAS number	**140703-51-1**	Quantity	**2 mg**
Date of manufacture	**March 2025**	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-NH2

6 residues

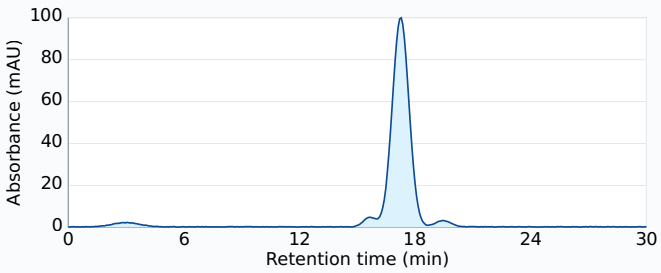
Analytical results

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	TFA ≤ 0.50% (acetate salt)	**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

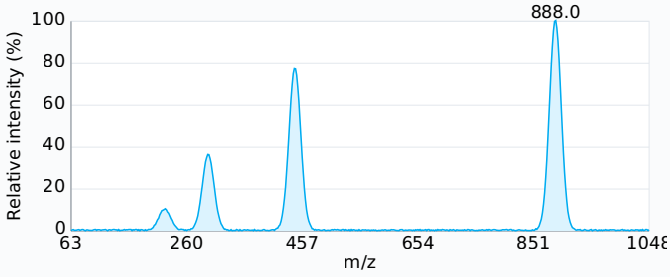


Main peak RT **17.25 min** · Area **99.21%** · Largest imp 0.6% · Total related 0.79%

Mass spectrum

ESI-MS positive

Electrospray ionisation — positive mode



Observed **[M+H]+ 888.0** · MW **887.04 g/mol**

✓ Overall result: Conforms to specification