

## CERTIFICATE OF ANALYSIS

## Humanin

Mitochondrial-Derived Peptide · 5mg Lyophilised

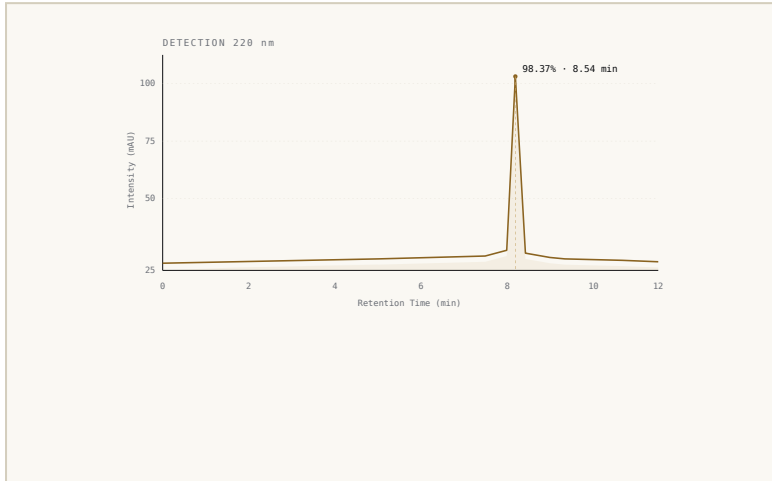
## 01 PRODUCT INFORMATION

PRODUCT	Humanin	CAS NUMBER	330936-69-1
CHEMICAL NAME	Humanin (24-residue peptide)	MOL. FORMULA	C <sub>129</sub> H <sub>210</sub> N <sub>38</sub> O <sub>30</sub> S <sub>3</sub>
QUANTITY	5mg per vial	MOL. WEIGHT	2687.23 g/mol
BATCH / LOT	HUM250430	APPEARANCE	White lyophilised powder
MFG. DATE	30 April 2026	RETEST DATE	30 April 2028
STORAGE	2–8°C, dark, dry	INTENDED USE	Research Use Only

## 02 ANALYTICAL RESULTS

TEST ITEM	SPECIFICATION	RESULT	METHOD
Appearance	White to off-white lyophilised powder	✓ COMPLIES	Visual
Identification	Positive	✓ COMPLIES	HPLC / MS
Peptide Sequence	Correct sequence confirmed	✓ COMPLIES	Mass Spec.
Purity	≥ 99.0%	98.37%	HPLC
Peptide Content	95.0% – 105.0%	99.1%	HPLC
Acetate Content	≤ 12.0%	7.6%	Ion Chrom.
Water Content	≤ 8.0%	2.7%	Karl Fischer
Bacterial Endotoxins	≤ 10 EU/mg	< 2 EU/mg	LAL Test
Residual Solvents	Meets USP / EP requirements	✓ COMPLIES	GC
Heavy Metals	≤ 10 ppm	< 1 ppm	ICP-MS
Sterility	Sterile	✓ COMPLIES	USP <71>
pH (Reconstituted)	4.0 – 7.0	5.6	pH Meter

## 03 HPLC CHROMATOGRAM SUMMARY



MAIN PEAK RT	8.54 min
PEAK AREA	98.37%
TOTAL IMPURITIES	1.63%
DETECTION	UV 220 nm
COLUMN	C18 reversed-phase

## 04 MASS SPECTROMETRY SUMMARY

EXPECTED MOLECULAR MASS	2687.23 Da
OBSERVED MOLECULAR MASS	2687.28 Da
MASS DEVIATION	+ 0.05 Da (within tolerance)
RESULT	✓ IDENTITY CONFIRMED

## 05 QUALITY ASSURANCE &amp; AUTHORISATION

*“This batch has been manufactured and tested in accordance with internal quality control procedures and complies with all specifications listed in this Certificate of Analysis.”*

**RELEASED**  
QC APPROVED

APPROVED BY

Sarah Bennett

QUALITY ASSURANCE MANAGER

SIGNATURE

*S. Bennett*

AUTHORISED DIGITALLY

DATE OF ISSUE

30 April 2026

ISSUED DIGITALLY

## 06 LABORATORY INFORMATION

ANALYTICAL TESTING BY

**Hongbai Technology Co.**

Independent third-party laboratory · HPLC · MS · ICP-MS · LAL

**ISO/IEC**  
**17025**  
ACCREDITED

ISSUED BY

Nexapep Ltd

DOCUMENT TYPE

Independent Third-Party CoA

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TEST REPORT NO.

HB-HUM250430

WEBSITE

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SAMPLE REFERENCE

HUM250430



DOCUMENT VERIFICATION REFERENCE

NX-HUM250430-BE2B-A023

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