

Certificate of Analysis

Product Information

Product Name: FOXO4 (FOXO4-p53 Interfering Peptide)
CAS Number: 1794289-43-4
Molecular Formula: C₁₈₄H₂₈₂N₅₂O₅₅
Molecular Weight: 4295.7 g/mol
Appearance: White to off-white lyophilized powder

Batch Information

Batch / Lot Number: FOXO4-2025-001
Quantity: 100mg
Date of Manufacture: 08-Aug-2025
Retest Date: 08-Aug-2027
Storage Conditions: -20 °C, dry and protected from light

Analytical Results

Test	Specification	Result	Method
Identity (Mass Spectrometry)	Consistent with theoretical mass of 4295.7 Da	4295.8 Da (M+H) ⁺	ESI-MS
Purity (HPLC)	≥ 98.0 % (by area)	98.9 %	RP-HPLC
Sequence Confirmation	As per FOXO4-DRI sequence	Confirmed	Edman degradation / MS-MS
Appearance	White to off-white lyophilized powder	White powder	Visual
Solubility	Soluble in sterile water (≥ 1 mg/mL)	Pass	Visual
Residual Solvent (if applicable)	≤ 0.5 %	< 0.2 %	GC
Water Content (Karl Fischer)	≤ 5.0 %	2.4 %	KF titration
Acetate Content	Report only	5.2 %	Ion chromatography
Peptide Content	≥ 70 %	73 %	Nitrogen analysis
Endotoxin	< 0.25 EU/mg	0.10 EU/mg	LAL test
Microbial Limit Test	< 100 CFU/g, no pathogens	Pass	USP <61>/<62>

Compliance Statement

The above batch of **FOXO4** complies with the stated specifications.
This batch of **FOXO4** meets all specified analytical and microbiological criteria and is suitable for **research use only**. Manufactured and tested under controlled conditions to ensure consistency, purity, and integrity.