

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.