

Certificate of Analysis

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|---------------------------|---------------------------|
| KPV Powder (Synthetic) | CAS: 67727-97-3 |
| Product No.: 800133 | Batch No.: 26031605 |
| Date of Mfg: Mar 16, 2026 | Date of Exp: Mar 15, 2028 |
| Sequence: Lys-Pro-Val | |



| Test | Specification | Result |
|------------------------------|---|--|
| Appearance | White or off-white powder | Conforms |
| Solubility | Soluble in water and 1% acetate acid | Conforms |
| HPLC | The principal peak in the chromatogram obtained with the test solution is similar in retention time to principal peak in the chromatogram obtained with the reference solution. | Conforms |
| Amino acid analysis | Lys 0.9-1.1 Val 0.9-1.1 Pro 0.9-1.1 No more than the traces of the other amino acids are present. | Lys 1.0 Val 1.0 Pro 1.0 No more than the traces of the other amino acids are present. |
| MS | 342.4 ± 1.0 | 342.0 |
| Related Substances | Unspecified impurity for each impurity: NMT 1.0% | 0.67% |
| Purity (HPLC) | NLT 98% | 99.3% |
| Acetic acid | NMT 30.0% | 14.3% |
| Water Content (Karl Fischer) | NMT 7.0% | 5.3% |
| Assay | 95.0%-105.0% (anhydrous and acetic acid free substance) | 99.3% |
| Bacterial endotoxins | Less than 5IU/mg | Conforms |

| | | |
|--|--|----------------|
| Residual solvent | | |
| Dichloromethane | NMT 600 ppm | N.D |
| Acetonitrile | NMT 410 ppm | 143ppm |
| N,N-Dimethylformamide | NMT 880 ppm | N. D |
| Methanol | NMT 3000ppm | N.D |
| Storage | In an air tight container, protected from light; Short Term:2-8°C ; Long Term:below-10°C | |
| Report | <i>Lipeng</i> | Date 2026.3.16 |
| Reviewer | <i>Jenny Mailei</i> | Date 2026.3.16 |
| Conclusion: This batch of product complies with Enterprise Standard. | | |

It is only supplied as chemical product.

It is only for R&D use.