

## CERTIFICATION OF ANALYSIS

MOT-S (Synthetic)	CAS: 1627580-64-6
Product No.:800102	Batch No.: 23031508
Date of Mfg: Mar 15, 2023	Date of Exp:Mar 14, 2025
Sequence: Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg	

Test	Specification	Result																																								
Appearance	White powder	conforms																																								
Solubility	Soluble in H <sub>2</sub> O	conforms																																								
Amino acid analysis	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Met</td><td style="width: 15%;">1.8-2.2</td><td style="width: 10%;">Ile</td><td style="width: 15%;">0.9-1.1</td></tr> <tr> <td>Arg</td><td>2.7-3.3</td><td>Phe</td><td>0.9-1.1</td></tr> <tr> <td>Glx</td><td>1.8-2.2</td><td>Pro</td><td>0.9-1.1</td></tr> <tr> <td>Gly</td><td>0.9-1.1</td><td>Lys</td><td>0.9-1.1</td></tr> <tr> <td>Tyr</td><td>1.8-2.2</td><td>Leu</td><td>0.9-1.1</td></tr> </table>	Met	1.8-2.2	Ile	0.9-1.1	Arg	2.7-3.3	Phe	0.9-1.1	Glx	1.8-2.2	Pro	0.9-1.1	Gly	0.9-1.1	Lys	0.9-1.1	Tyr	1.8-2.2	Leu	0.9-1.1	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Met</td><td style="width: 15%;">2.0</td><td style="width: 10%;">Ile</td><td style="width: 15%;">0.9</td></tr> <tr> <td>Arg</td><td>3.1</td><td>Phe</td><td>0.9</td></tr> <tr> <td>Glx</td><td>2.0</td><td>Pro</td><td>1.0</td></tr> <tr> <td>Gly</td><td>1.0</td><td>Lys</td><td>1.1</td></tr> <tr> <td>Tyr</td><td>1.9</td><td>Leu</td><td>1.1</td></tr> </table>	Met	2.0	Ile	0.9	Arg	3.1	Phe	0.9	Glx	2.0	Pro	1.0	Gly	1.0	Lys	1.1	Tyr	1.9	Leu	1.1
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Mass spectrum	2174.6± 1.0	2173.8																																								
Purity(HPLC)	NLT 98.0%	98.8%																																								
Acetic acid	NMT 13.0%	9.1%																																								
Water	NMT 7.0%	4.7%																																								
Peptide Content(N%)	NLT80%	85.7%																																								
Assay	97.0%-103.0% (anhydrous and acetic acid free substance)	99.4%																																								

**Storage: In an air tight container,protected from light at temperature 2-8°C.**

Conclusion: the product complies with specification.

It is only supplied as chemical product. Used only for research. Not for human use.