

Certificate of Analysis

Product	Tesa10mg + lpa3mg	CAS No.:	Tesa: 218950-91-1 lpa: 170184-36-2
Product No.	TI 10+3 680042	Molecular Formula	C ₂₂₁ H ₃₆₆ N ₇₂ O ₆₇ S+C ₃₈ H ₄₉ N ₉ O ₅
Amino Acid Sequence	Tesamorelin:trans-3-hexenoyl-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-Gln-Gln-Gly-Glu-Ser-Asn-Gln-Glu-Arg-Gly-Ala-Arg-Ala-Arg-Leu-NH ₂ Ipamorelin:Aib-His-D-2-Nal-D-Phe-Lys-NH ₂		
Batch No.	TES-26052704	Quantity	13mg/vial (Tesamorelin 10mg + Ipamorelin 3mg)
Mfg.Date	May.26th,2026	Retest Date	May.26th.2028

【ITEMS】	【SPECIFICATIONS】	【RESULTS】
Appearance	White or almost white loose lyophilized powder	White loose lyophilized powder
Solubility	Tesamorelin: Freely soluble in water Ipamorelin: Sparingly soluble in water, soluble in ethanol	Conforms
HPLC	The retention time of principal peaks of test solution corresponds to reference solution	Conforms
Amino acid content (Tesamorelin Molar Ratio)	Tyr: 1.8~2.2	2.0
	Ala: 4.5~5.5	5.0
	Asx(Asn+Asp) 3.6~4.4	4.2
	Ile: 1.8~2.2	2.0
	Phe: 0.9~1.1	1.0
	Thr: 1.8~2.2	2.1
	Ser: 3.6~4.4	4.2
	Arg: 5.4~6.6	5.9
	Glx(Glu+Gln) 6.3~7.7	7.0
	Val: 0.9~1.1	0.99
	Leu: 4.5~5.5	5.2
	Gly: 2.7~3.3	3.1
	Gln: 1.8~2.2	2.0
	Met: 0.9~1.1	1.0



Mass spectrum	Tesa: 5135.9±1.0 lpa: 711.8±0.5	Tesa: 5135.6 lpa: 711.6
Purity(HPLC)	NLT 98.0%	99.2%
Amino Acid Content (lpa)	Amino Acid(Spec Range)	Test Result
	His: 0.9~1.1	1.0
	Phe: 0.9~1.1	0.99
	Lys: 0.9~1.1	1.02
Trilluoroacetate	NMT 0.5%	N.D
Water content(KF)	NMT 8.0%	3.3%
Peptide content(%)	NLT 90.0%	93.5%
Residual solvent	Dichloromethane ≤600ppm	N.D
	Acetonitrile ≤410ppm	24ppm
	MTBE ≤5000ppm	N.D
	DMF ≤880ppm	N.D
Bacterial endetexins	NMT 10EU/mg	Conforms
Microbial limits	TAMC NMT 100cfulg	Conforms
	TYMC NMT 100cfu/g	Conforms
Saornge	In an air tight container, protected from light: Short Term 2-8℃C: Long Term below-10"C	
Reporter	Wang Ming 46 46	Date 2026.5.26
Rosioner	Li Lin 46 46	Date 2026.5.26
Conclusion: This bntch of prodart counplies with Enterprise Standard.		

Ir is only suppliod as chemical product.

It is only for R& D uBc.