

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	Bremelanotide Acetate (PT-141)
Lot No.:	VI1420260202-10
Sequence:	Nle-cyclo(Asp-His-D-Phe-Arg-Trp-Lys)
Modifications:	N-Terminal Acetyl; Cyclo {K and D}

Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder (Conforms)
Molecular Weight (MS)	1025.19±1.0 Da	1025.20 Da
Purity by HPLC	>98%	99.6%
Retention Time (HPLC)	±0.2min of Standard	Conforms
Assay	80.0%~ 120.0%	119.3%
Solubility	10 mg/1ml H ₂ O	Clearly soluble
Acetic acid content	≤20.0%	13.2%
TFA Content	≤0.500%	Conforms
DCM Content	≤0.060%	0.012%
DMF Content	≤0.088%	N.D.
Total Aerobic Count	≤100CFU/g	Conforms
Yeast & Molds Count	≤100CFU/g	Conforms
Endotoxins	≤0.5EU/mg	Conforms

Storage Conditions: -20°C.

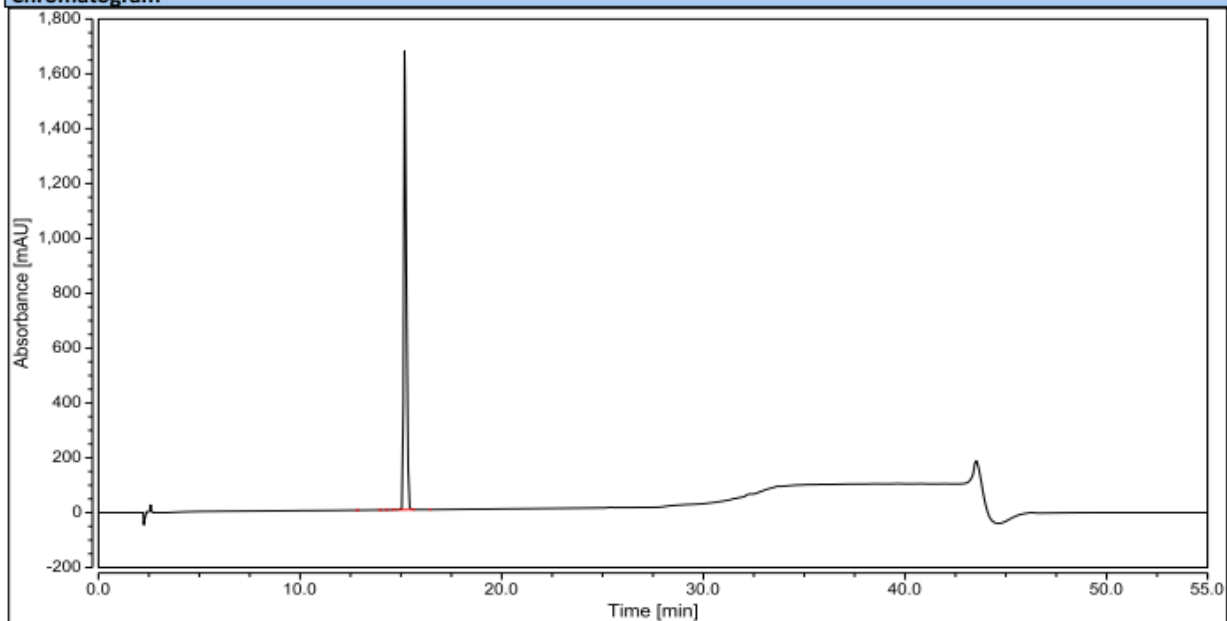
Date of Mfg: 02 Feb 2026

Sample Information

Lot. No	VI1420260202-10
Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	0.8ml/min
Wavelength	220nm
Analytical column type	Phenomenex Luna 3um C18 (2) (4.6*150mm*3um)
Dissolution method	100%H ₂ O
Acquisition Time	2026/02/05 00:42
Inj. Volume	4ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	20
25.00	Pumps	B.Conc	45
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	20
55.00	Controller	Stop	

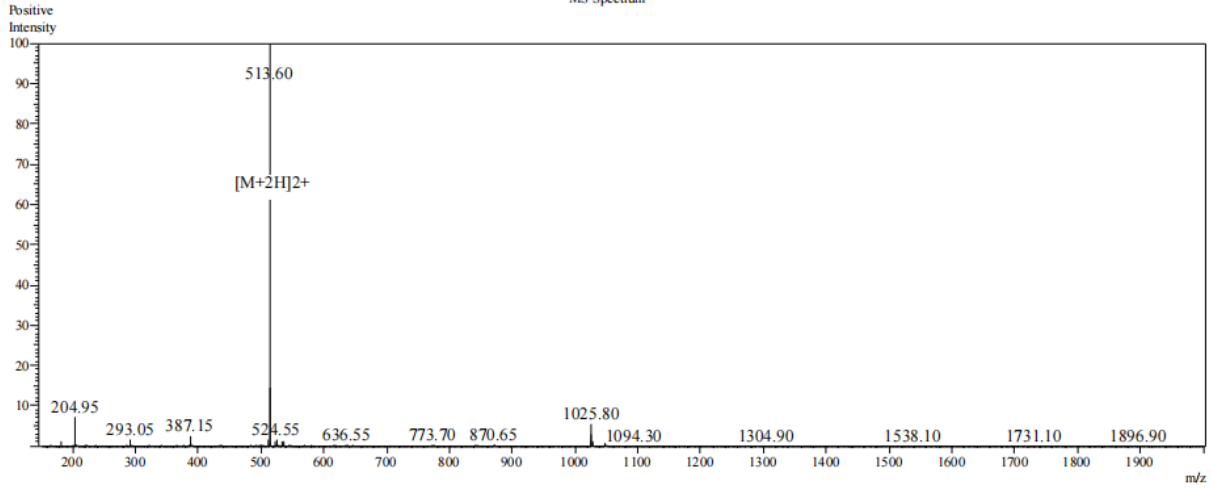
Chromatogram



Integration Results

No.	RetentionTime min	Area mAU*min	Height mAU	Rel.Area %
1	12.860	0.0276	0.282	0.012
2	13.980	0.0304	0.301	0.013
3	14.308	0.0511	0.533	0.022
4	14.666	0.1941	2.049	0.082
5	14.970	0.2736	2.949	0.116
6	15.180	234.5867	1672.609	99.627
7	15.447	0.2908	5.019	0.124
8	16.451	0.0108	0.148	0.005
Total:				100.000

MS Spectrum



Sample Information		Interface	:ESI	Prerod Bias	:+4.5kv
Dissolution method	:3%HAC+25%ACN+72%H2O	Nebulizing Gas Flow	:1.50L/min	Detector	:-0.2kv
Date Acquired	:2026/2/4 15:37:48	CDL Temp	:250C	T.Flow	:0.2ml/min
Injection Volume	:1ul	CDL Volt	:0v	B.conc	:30%H2O/70%MeOH
		Block Temp	:200		

Lot No.	VI1420260202-10
Theoretical	1025.19
Observed	1025.20