CERTIFICATE OF ANALYSIS

Product Name	API137 peptide, Cat.#: 318720 (TFA removed)
Lot No.	C625YHEMG0-1/PE4249
Sequence	{N,N,N',N'-tetramethylGuanidino}-{Orn}-NNRPVYIPRPRPPHPRL (Acetate Salt)
Dissolution condition	100%H2O
Modification	Acetate salt
Molecular Weight (MW)	2292.16
Storage	-20°C

Test Items	Specifications	Results
MW by MS	2292.00	Conforms
Purity by HPLC	>95%	97.980%
Peptide content	N/A	N/A
Moisture content	N/A	N/A
Acetic acid content	N/A	N/A
Appearance	White to off-white lyophilized powder	Conforms
Quantity	100.0mg	5.0mg*20

NovoPro Bioscience Inc. (hereafter NovoPro) warrants material of said quality at the time of sale. It is the sole responsibility of the customers to determine the adequacy of all materials for any intended or specific purpose or use. NovoPro's sole obligation is to replace the material up to the extent of the purchase price. This warranty applies only to products in original packaging and does not apply to a product which has been tampered with or altered in any way in or which has been misused or damaged by accident or negligence. All claims must be received writing (by fax or email) within 30 days from date when product arrive at the destination city and failure to do so shall constitute a waiver by customers for any and all such claims.

Certified by:

Quality Assurance Department

Oct/17/2026

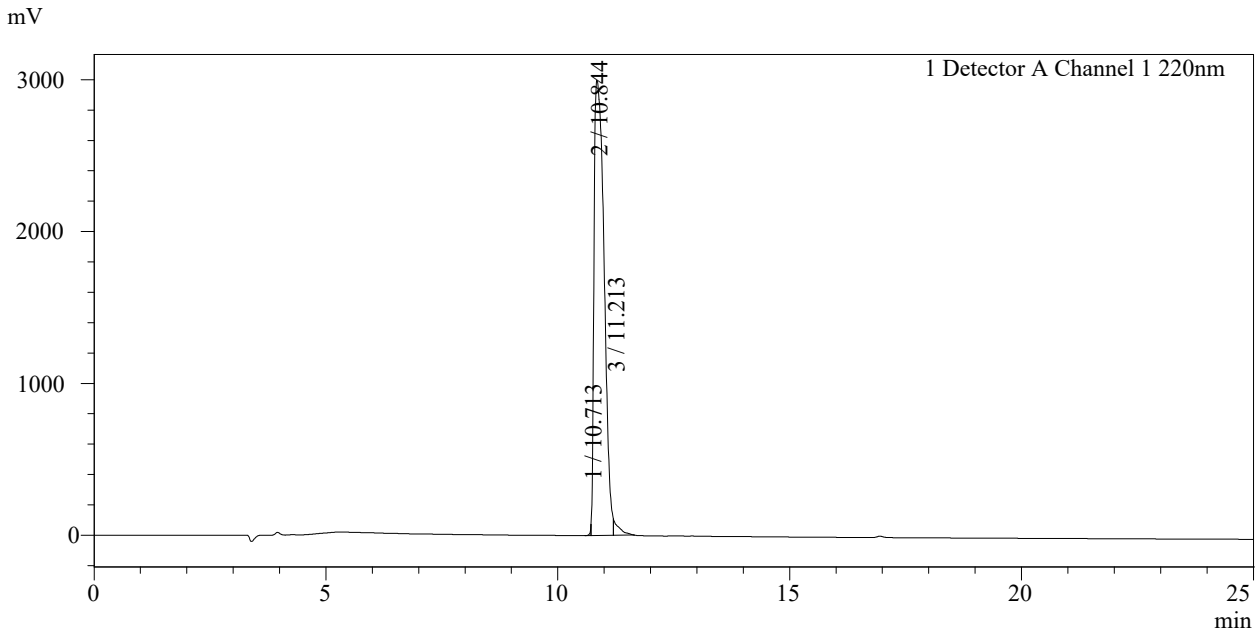
NovoPro Biosciences Inc. VERIFIED Quality Control

Sample Information

Order ID	:MTFB21095
Name	:API137 peptide, Cat.#: 318720 (TFA removed)
Sequence	:{N,N,N',N'-tetramethylGuanidino}-{Orn}-NNRPVYIPRPRPPHPRL (Acetate Salt)
Lot. No	:C625YHEMG0-1/PE4249
Pump A	:0.065%Trifluoroacetic in 100% water
Pump B	:0.05%Trifluoroacetic in 100% acetonitrile
Total Flow	:1ml/min
Wavelength	:220nm
Analytial column type	:Kromasil 100-5-C18 (4.6*250mm*5 μm)
Dissolution method	:100%H2O
Inj. Volume	: 3ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	5
25.00	Pumps	B.Conc	65
25.01	Pumps	B.Conc	95
27.00	Pumps	B.Conc	95
27.01	Pumps	B.Conc	5
35.00	Pumps	B.Conc	5
35.01	Controller	Stop	

Chromatogram

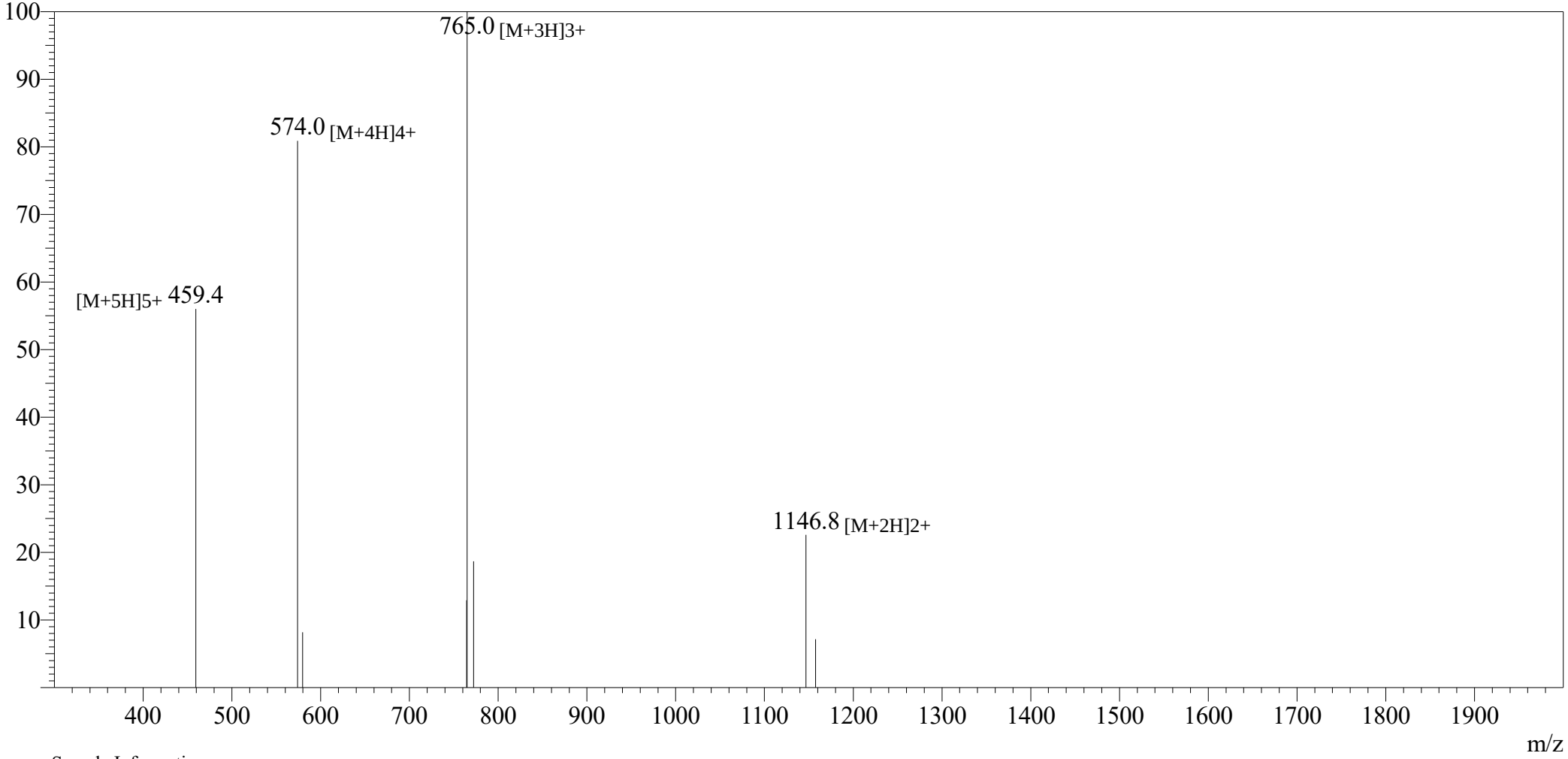


Peak Table

Detector A 220nm

Peak#	Ret. Time	Area	Height	Area%
1	10.713	98431	44727	0.214
2	10.844	45144470	2997797	97.980
3	11.213	832437	98549	1.807
Total		46075338	3141073	100.000

Mass Spectrum



Sample Information	
Month-Day Processed :	10/16/26
Time Processed :	15:11:29
Injection Volume :	0.4
Sample Name :	API137
Sample ID :	C625YHEMG0-1
Theoretical MW :	2292.16
Observed MW :	2292.0

Interface	:ESI
Nebulizing Gas Flow	:1.5L/min
CDL Temp	:250
Block Temp	:200

Equipment	:ZJ26010077
Interface Bias	: +4.5 kV
Drying Gas Flow	:5 L/min
T.Flow	:0.2 ml/min
B.conc	:50%H2O/50%MeOH

Peptide Qualitative Solubility Test Report

Name	API137
Order ID	C625YHEMG0-1
Lot No.	C625YHEMG0-1/PE4249
Sequence	{N,N,N',N'-tetramethylGuanidino}{ORN}NNRPVYIPRPRPPHPRL

Solvent	Results
Ultrapure water	Soluble
1 × DPBS(pH 7.1±0.1)	Soluble
DMSO	Soluble

DPBS Dulbecco's Phosphate Buffered Saline, containing Potassium Chloride(KCl), Potassium Phosphate monobasic (KH_2PO_4),Sodium Chloride (NaCl)and Sodium Phosphate dibasic (Na_2HPO_4-$7H_2O$).

Comments:

1. The solubility of peptides is largely determined by the polarity of the peptides. Acidic proteins are dissolved in alkaline solutions, basic proteins can be dissolved in acidic solutions, and hydrophobic and neutral polypeptides containing a large number of uncharged polar amino acid residues or hydrophobic amino acids can be dissolved in a small amount of organic solvents first. Then dilute with water. Peptides with higher hydrophobicity are recommended to be dissolved in pure DMSO.
2. Freely soluble: the solvent is added to the sample, the sample dissolves immediately, and the solution is clear and transparent. Soluble: the solvent is added to the sample, the sample dissolves after shaking or sonication , and the solution is clear and transparent. Insoluble: The solvent is added to the sample, the solution is cloudy or flocculent by shaking or sonication. Note: Peptides with soluble results typically have a reference dissolved concentration of approximately 1mg/ml. Kindly gradient dilute to 0.1 mg/ml when the peptides cannot be dissolved at 1mg/ml. If a specific concentration is required, the quantitative solubility test is recommended.
3. Peptides containing Cysteine (C), Methionine (M) or Tryptophan (W) are sensitive to oxidation by DMSO. We advise that peptides dissolved in DMSO be used immediately if only DMSO can be used as the solvent in research. Usually, we recommend that the peptides be used in time after dissolving and do not recommend storage of liquid samples.
4. When the peptide is insoluble in the solvent of your choice, please refer to the table above for other suggested solvents.
5. Please note that distinct dissolution behaviors may happen between small amounts and large amounts of gross peptide in the same solvent. Generally, larger amounts of peptide take longer to dissolve, and sonication may help facilitate dissolution.
6. The qualitative solubility testing services are offered free of charge, including three default solvents: ultrapure water, 1× DPBS (pH 7.1 ± 0.1), and DMSO. The qualitative solubility results are for reference only. If customers need to evaluate other solvents or require more accurate results based on specific experimental needs, we recommend using our quantitative solubility testing service.

Tested By: Wuyu Ding
10/21/2026(MM/DD/YYYY)