

CERTIFICATE OF ANALYSIS

Product Name	API137, Cat. no: 318720	
Order ID	C4079IB070_1	
Lot No.	C4079IB070-1/PE0037	
Sequence	{N,N,N',N'-tetramethylGuanidino}{ORN}NNRPVYIPRPRPPHPRL	
Modification	N/A	
Length	19AA	
Storage	-20°C	
Recommended Solvent*	Ultrapure water	
Comments	TFA salt	
Test Items	Specifications	Results
Molecular Weight	Theoretical MW: 2291.70	Consistent
HPLC purity	≥95.0%	97.6%
Appearance	White lyophilized powder	Conforms
Gross Weight	100 mg	20*5.0mg

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

Mar/28/2023

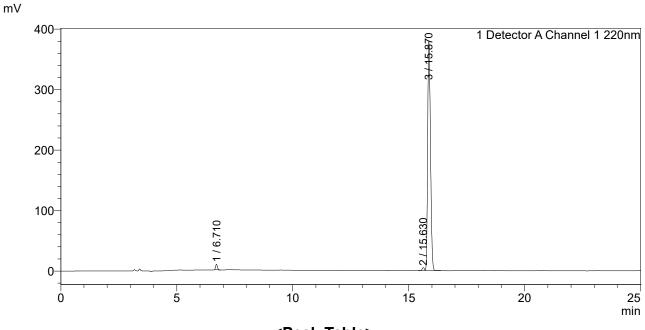




Sample Name Sample ID Time Processed :1 Month-Day-Year P	:C4079IB070-1		
Time	Module	Command	Value
0.01	Pumps	B.Conc	5
25.00	Pumps	B.Conc	65
25.01	Pumps	B.Conc	95
27.00	Pumps	B.Conc	95
27.01	Pumps	B.Conc	5 5
35.00	Pumps	B.Conc	5
35.01	Controller	Stop	
< <column performa<="" td=""><td>ince>></td><td>I I</td><td></td></column>	ince>>	I I	
<detector a=""></detector>			
Column Inertsil OD	S-SP 4 6 x 250 mm		

Column :Inertsil ODS-SP 4.6 x 250 mm Equipment: GR11010440



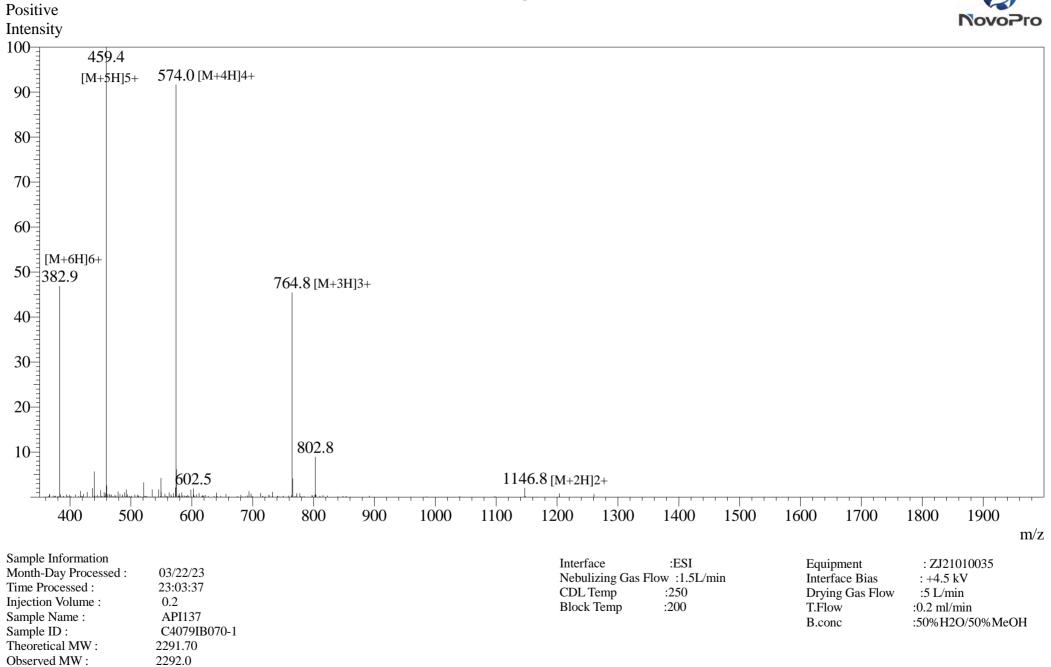


<Peak Table>

Detector A Channel 1 220nm					
Peak#	Ret. Time	Area	Height	Area%	
1	6.710	47735	8899	1.473	
2	15.630	30925	4658	0.954	
3	15.870	3161568	379155	97.572	
Total		3240228	392711	100.000	

Mass Spectrum









Peptide Qualitative Solubility Test Report

Name	API137
Order ID	C4079IB070-1

Solvent	Results
ultrapure water	Soluble
0.1M PBS 7.4	Soluble
DMSO	Soluble

DPBS Dulbecco's Phosphate Buffered Saline, containing Potassium Chloride(KCl),Potassium Phosphate monobasic (KH₂PO₄),Sodium Chloride (NaCl)and Sodium Phosphate dibasic (Na₂HPO₄-7H₂O);

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: The dissolved concentration of the sample is about 1mg/ml.

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 or stored at -20°C (or preferably -80°C)prior to use. Usually, we recommend that the peptides be used in time after dissolving. If the solution peptides need to be stored, it is recommended to store them in small samples to avoid repeated freezing and thawing.

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.

6. The test results are for reference only, and the user needs to choose a suitable solvent according to the experimental needs.

Tested by: Ting Hu 03-27-2023