


CERTIFICATE OF ANALYSIS

Product Name	Y-2, a CTLA-4/B7 inhibition peptide (Cat.# 318753, TFA removed)
Lot No.	MTFA30145-0511
Sequence	Ac-C*AWGLAILEGELAWLEGGGGGGQLADLKRQLAWLKQAC*-NH2
Dissolution condition	15%ACN+85%H2O
Length	39AA
Modification	acetate salt;Disulfide bond C1-C39
Molecular Weight (MW)	4081.68
Storage	-20°C

Test Items	Specifications	Results
MW by MS	4079.85	Conforms
Purity by HPLC	>95%	99.366%
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	10mg	5.0mg*2

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

May/24/2023

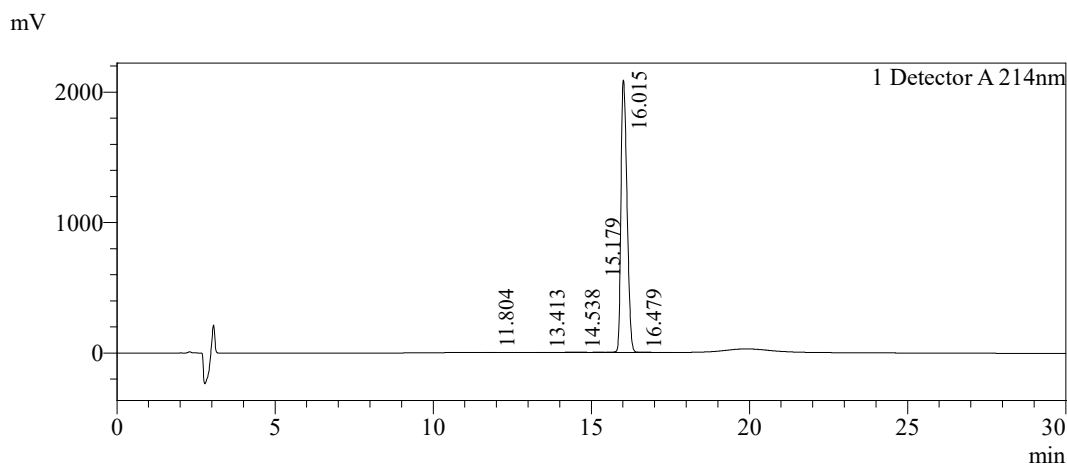


Sample Information

Order ID :MTFA30145
 Name :Y-2, a CTLA-4/B7 inhibition peptide
 Sequence :Ac-C*AWGLAILEGELAWLEGGGGGGGQLADLKRQLAW
 LKQAC*-NH2(Acetate Salt)
 Lot. No :MTFA30145-0511
 Pump A :0.1%Trifluoroacetic in 100% water
 Pump B :0.1%Trifluoroacetic in 100% acetonitrile
 Total Flow :1ml/min
 Wavelength :214nm
 Analytical column type :Shim-pack GIST C18(4.6*250mm*5um)
 Dissolution method :15%ACN+85%H2O
 Inj. Volume : 50ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	40
30.00	Pumps	B.Conc	70
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	40
50.00	Controller	Stop	

Chromatogram

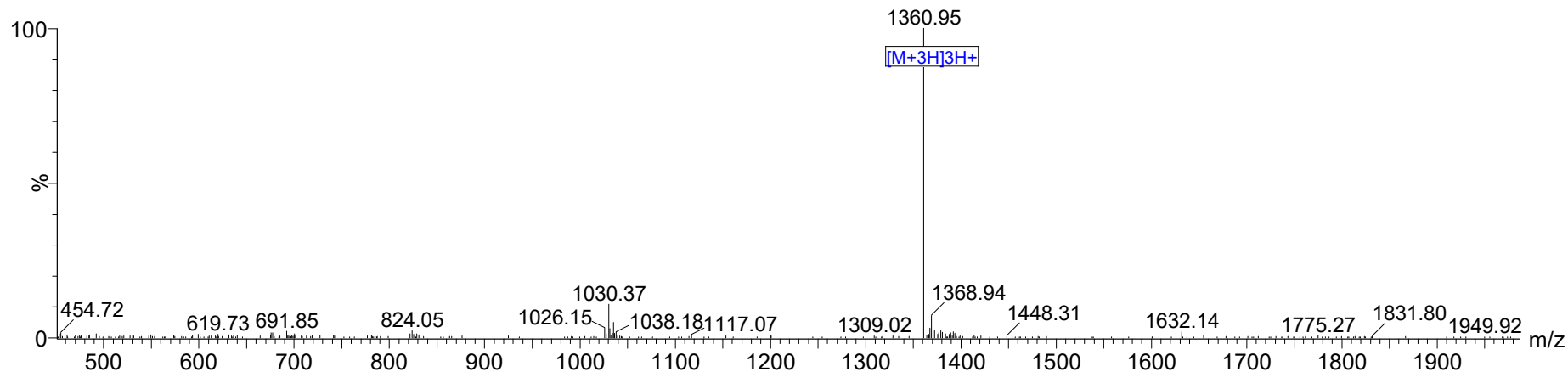


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	11.804	9486	968	0.034
2	13.413	8718	460	0.031
3	14.538	80987	2869	0.289
4	15.179	25134	1542	0.090
5	16.015	27885659	2087630	99.366
6	16.479	53708	2018	0.191
Total		28063692	2095487	100.000

MS Spectrum

 Positive
Intensity


Dissolution method	:15%ACN+85%H2O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:5/22/2023 3:56:00	Nebulizing Gas Flow	:1.50L/min	Detector	:-0.2kv
Injection Volume	:0.2ul	CDL Temp	:250C	T.Flow	:0.2ml/min
Block Temp	:200	CDL Volt	:0v	B.conc	:50%H2O/50%MEOH

Order ID : MTF30145
 Name : Y-2, a CTLA-4/B7 inhibition peptide
 Sequence : Ac-C*AWGLAILEGELAWLEGGGGGGQLADLKRQLAWLKQAC*-NH2(Acetate Salt)
 Lot.No : MTF30145-0511
 Theoretical : 4081.68
 Observed : 4079.85