

CERTIFICATE OF ANALYSIS

Product Name	Human PD-L1 inhibitor Ar5Y_4 peptide, Cat.#: 318735
Lot No.	GTA34686-1103
Sequence	GNWDYNSQRAQLYNQ
Dissolution condition	15%ACN+85%H2O
Length	15AA
Modification	N/A
Molecular Weight (MW)	1856.91
Storage	-20°C

Test Items	Specifications	Results
MW by MS	1857.10	Conforms
Purity by HPLC	>95%	95.010%
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:



Nov/22/2022

Quality Assurance Department

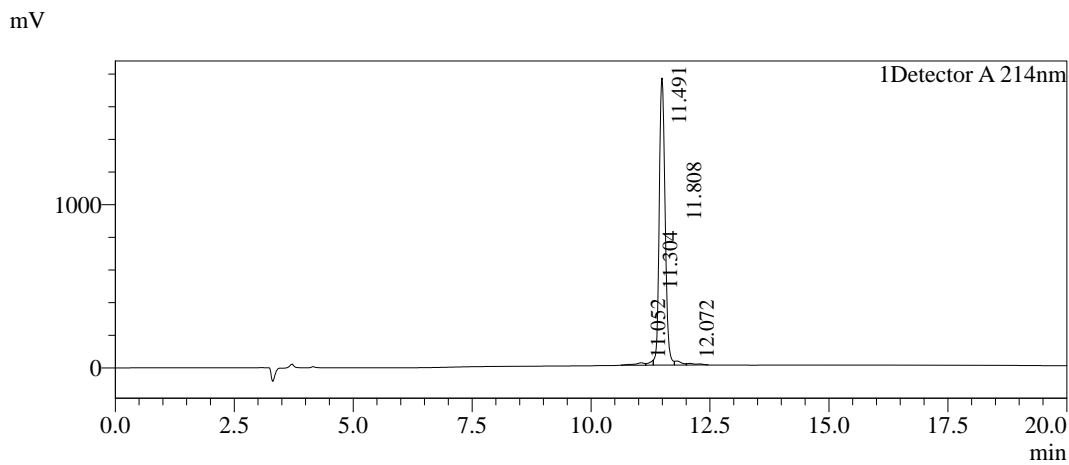


Sample Information

Order ID :GTA34686
 Name :PD-L1 inhibitor Ar5Y4
 Sequence :GNWDYNSQRAQLYNQ
 Lot. No :GTA34686-1103
 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 :YMC-Triart C18(4.6*250mm*5um)
 Dissolution method :15% ACN+85% H2O
 Inj. Volume : 15ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	15
20.00	Pumps	B.Conc	35
33.00	Pumps	B.Conc	100
38.00	Pumps	B.Conc	100
40.00	Pumps	B.Conc	15
50.00	Controller	Stop	

Chromatogram

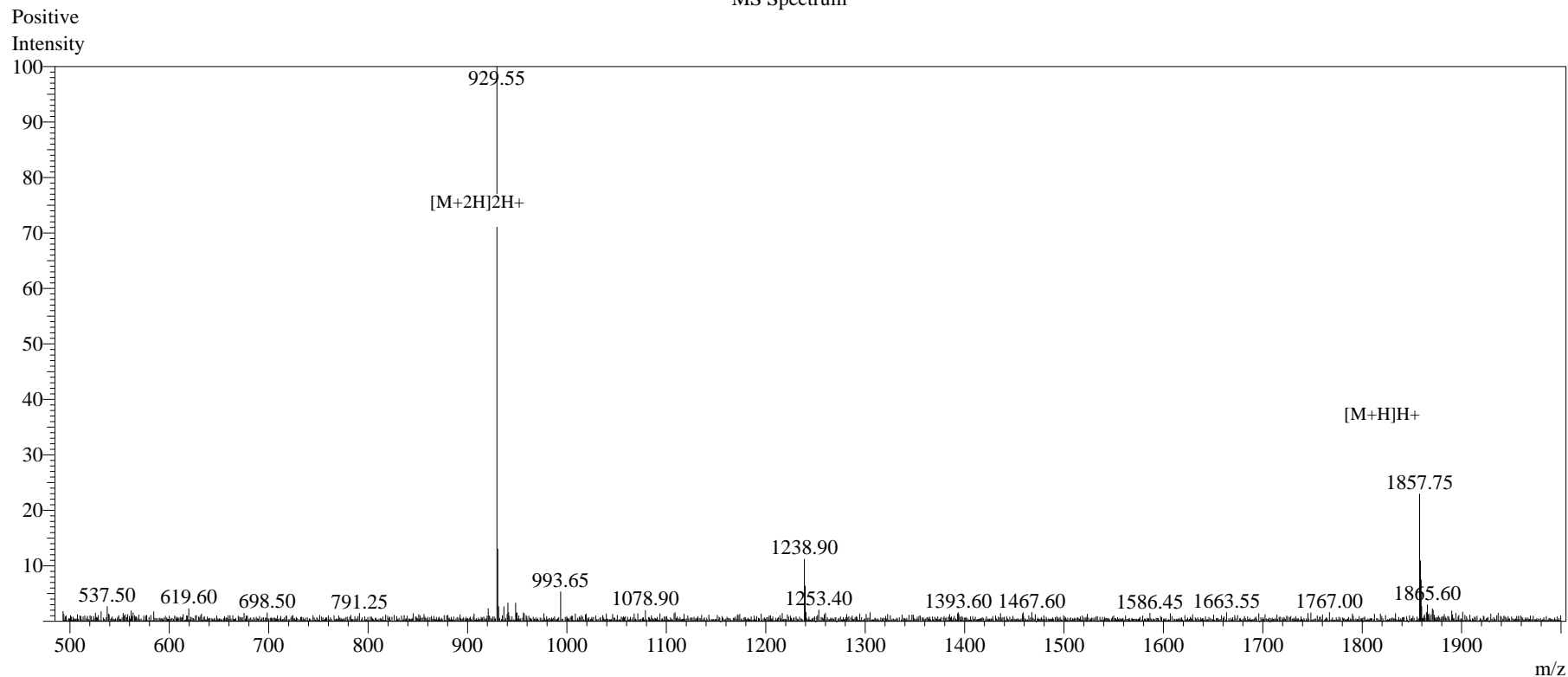


Peak Table

Detector A 214nm

Peak#	Ret. Time	Area	Height	Area%
1	11.052	221260	14623	1.397
2	11.304	166425	28716	1.051
3	11.491	15051101	1759263	95.010
4	11.808	247592	24850	1.563
5	12.072	155184	10005	0.980
Total		15841562	1837457	100.000

MS Spectrum



Sample Information

Dissolution method	:15% ACN+85% H ₂ O	Interface	:ESI	Prerod Bias	:+4.5kv
Date Acquired	:2022/11/19 16:25:04	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% H ₂ O/50% MEOH

Order ID	:GTA34686
Name	:PD-L1 inhibitor Ar5Y4
Sequence	:GNWDYNSQRAQLYNQ
Lot.No	:GTA34686-1103
Theoretical	:1856.91
Observed	:1857.10