

Supplementary Information

Peptide Analysis Data Sheet

Peptide Name : pep1

Peptide Lot Number : 15-41701

Sequence : G-R-A-L-A-R-G

Ordered by 정 지 형

Quantity Ordered : 1 mg

Quantity Delivered : 1.0 mg

HPLC Analysis

Instrument : SHIMADZU Prominence HPLC

Flow Rate : 1.0ml / min

Gradient 3%-10% B in 2 min

10%-40% B in 10 min

40%-60% B in 1 min

60%-3% B in 4 min

A;0.1%TFA water, B;0.1%TFA acetonitrile

Column : Shiseido capcell pak C18 Column (4.6 * 50mm)

Column temperature : room temperature

Detection : 220nm

Purity : 97%

Mass Analysis

Instrument : HP 1100 series LC/MSD

MS Expected : 699.41

MS Found : 699

Solubility

Soluble in water (10mg/ml)

Comment :

Released by



PEPTRON

대전시 유성구 유성대로 1628번길 37-24(전민동) (우)305-811

Tel +82-42-360-8800 Fax +82-42-360-8808

Email: order@peptron.co.kr <http://www.peptron.co.kr>

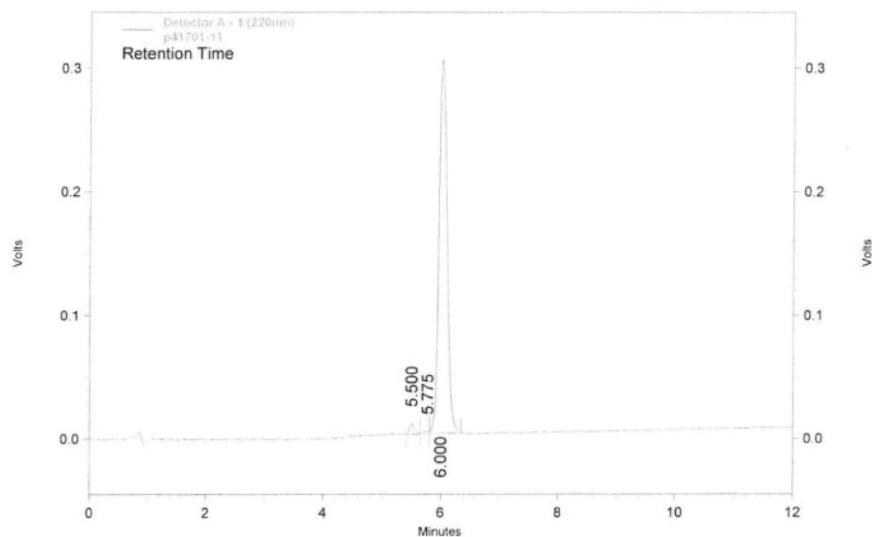
Method Name: D:\Anal-1 Data & Method\Methods\ss510.met

Data Name: D:\Anal-1 Data & Method\Data\2015\p41701-11

User: System

Acquired: 2015-05-20 오후 2:15:55

Printed: 2015-05-20 오후 2:30:03



Detector A - 1 (220nm)

Pk #	Retention Time	Area	Area %	Height	Height %
1	5.500	50702	1.664	8657	2.767
2	5.775	15196	0.499	2055	0.657
3	6.000	2981597	97.838	302201	96.577
Totals		3047495	100.000	312913	100.000

Spectrum Deconvolution
Data File C:\HPCHEM\1\DATA\2015\0520KH-E.D

```

=====
Injection Date   : 5/20/2015 4:04:36 PM
Sample Name     :                               Location : FIA
Acq. Operator   :                               Inj Volume : 7 µl
Acq. Instrument : Instrument 1
Acq. Method     : C:\HPCHEM\1\METHODS\DIRECT.M
Last changed    : 5/20/2015 4:03:13 PM
                  (modified after loading)
Analysis Method : C:\HPCHEM\1\METHODS\DIRECT.M
Last changed    : 5/20/2015 4:16:34 PM
                  (modified after loading)

```

```

Flow Injections :
      Inj. InjTime  Location  FIA Sample Name  Fragmentor
      ----|-----|-----|-----|-----|
        1    0.000   Vial 21   p41704-11         50
        2    1.104   Vial 22   pp20101-21         80
        3    2.118   Vial 23   p41707-11         50
        4    3.134   Vial 24   p41701-11         50
        5    4.147   Vial 25   p41501-11        100
        6    5.161   Vial 25   p41601-11        120
        7    6.175   Vial 25   d37301-11        150

```

===== Deconvolution Parameters =====

```

Adduct Ion(Positive): +H, 1.0079 Da
Adduct Ion(Negative): -H, -1.0079 Da
Low MW: 300
High MW: 1500
Maximum Charge: 50
Minimum Peaks in Set: 3
Retain Residual: No
Ion PWHH: 0.6 Da
MW Agreement: 0.05 %
Noise Cutoff: 1000 counts
Abundance Cutoff: 10 %
MW Assign: Curve fit
MW Assign Cutoff: 40 %
Envelope Cutoff: 50 %

```

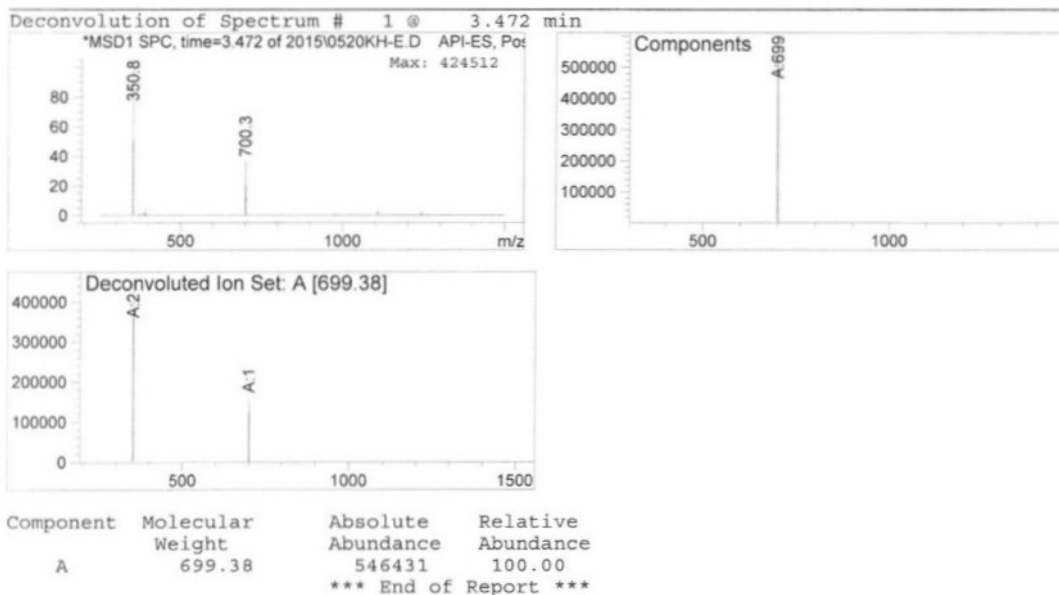


Figure S1.: Adhesive Pep 1 (GRALARG) Analysis Data Sheet.

Peptide Analysis Data Sheet

Peptide Name : pep4

Peptide Lot Number : 15-41704

Sequence : A-K-P-T-Y-K

Ordered by 정 지 형

Quantity Ordered : 1 mg

Quantity Delivered : 1.0 mg

HPLC Analysis

Instrument : SHIMADZU Prominence HPLC

Flow Rate : 1.0ml / min

Gradient 3%-10% B in 2 min
10%-40% B in 10 min
40%-60% B in 1 min
60%-3% B in 4 min

A;0.1%TFA water, B;0.1%TFA acetonitrile

Column : Shiseido capcell pak C18 Column (4.6 * 50mm)

Column temperature : room temperature

Detection : 220nm

Purity : 96%

Mass Analysis

Instrument : HP 1100 series LC/MSD

MS Expected : 706.40

MS Found : 706

Solubility

Soluble in water (10mg/ml)

Comment : Crystal form 이기 때문에 cap에 샘플이 묻어 있을 수 있습니다.
centrifuge 후, cap 개봉하여 실험하시기를 바랍니다.

Released by 



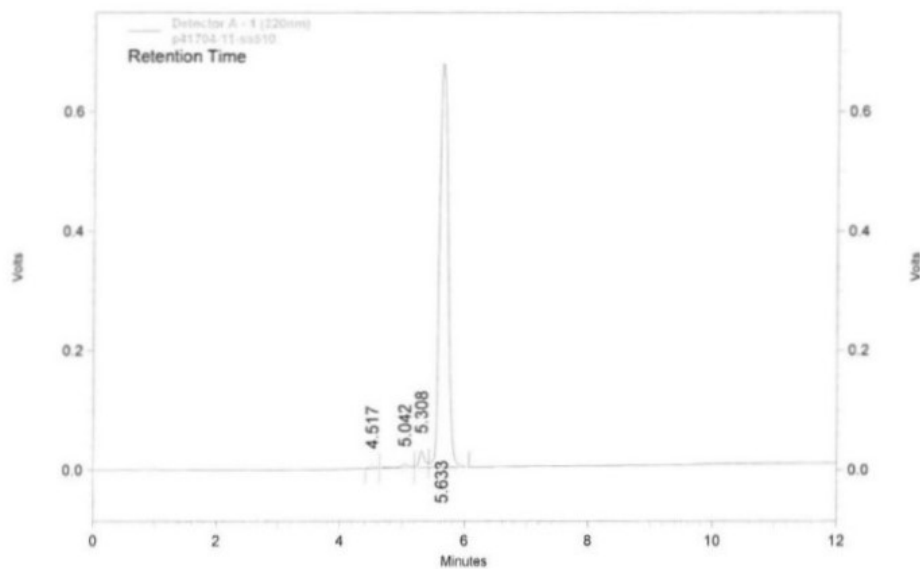
PEPTRON

대전시 유성구 유성대로 1628번길 37-24(천민동) (우)305-811

Tel +82-42-360-8800 Fax +82-42-360-8808

Email: order@peptron.co.kr <http://www.peptron.co.kr>

Method Name: D:\Anal-2 Data & Method\Methods\ss510.met
 Data Name: D:\Anal-2 Data & Method\data\2015\p41704-11-ss510
 User: System
 Acquired: 2015-05-20 오후 12:32:07
 Printed: 2015-05-20 오후 1:13:59



Detector A - 1 (220nm)					
Pk #	Retention Time	Area	Area %	Height	Height %
1	4.517	19631	0.291	3402	0.478
2	5.042	53132	0.786	5779	0.812
3	5.308	175554	2.598	27604	3.880
4	5.633	6508160	96.325	674701	94.830
Totals		6756477	100.000	711486	100.000

Spectrum Deconvolution
Data File C:\HPCHEM\1\DATA\2015\0520KH-E.D

```
=====
Injection Date : 5/20/2015 4:04:36 PM
Sample Name :
Acq. Operator :
Acq. Instrument : Instrument 1
Acq. Method : C:\HPCHEM\1\METHODS\DIRECT.M
Last changed : 5/20/2015 4:03:13 PM
                (modified after loading)
Analysis Method : C:\HPCHEM\1\METHODS\DIRECT.M
Last changed : 5/20/2015 4:14:57 PM
                (modified after loading)
Flow Injections :
```

Inj.	InjTime [min]	Location	FIA Sample Name	Fragmentor [V]
1	0.000	Vial 21	p41704-11	50
2	1.104	Vial 22	pp20101-21	80
3	2.118	Vial 23	p41707-11	50
4	3.134	Vial 24	p41701-11	50
5	4.147	Vial 25	p41501-11	100
6	5.161	Vial 25	p41601-11	120
7	6.175	Vial 25	d37301-11	150

```
=====
Deconvolution Parameters
=====
Adduct Ion(Positive): +H, 1.0079 Da
Adduct Ion(Negative): -H, -1.0079 Da
Low MW: 300
High MW: 1500
Maximum Charge: 50
Minimum Peaks in Set: 3
Retain Residual: No
Ion PWHH: 0.6 Da
MW Agreement: 0.05 %
Noise Cutoff: 1000 counts
Abundance Cutoff: 10 %
MW Assign: Curve fit
MW Assign Cutoff: 40 %
Envelope Cutoff: 50 %
```

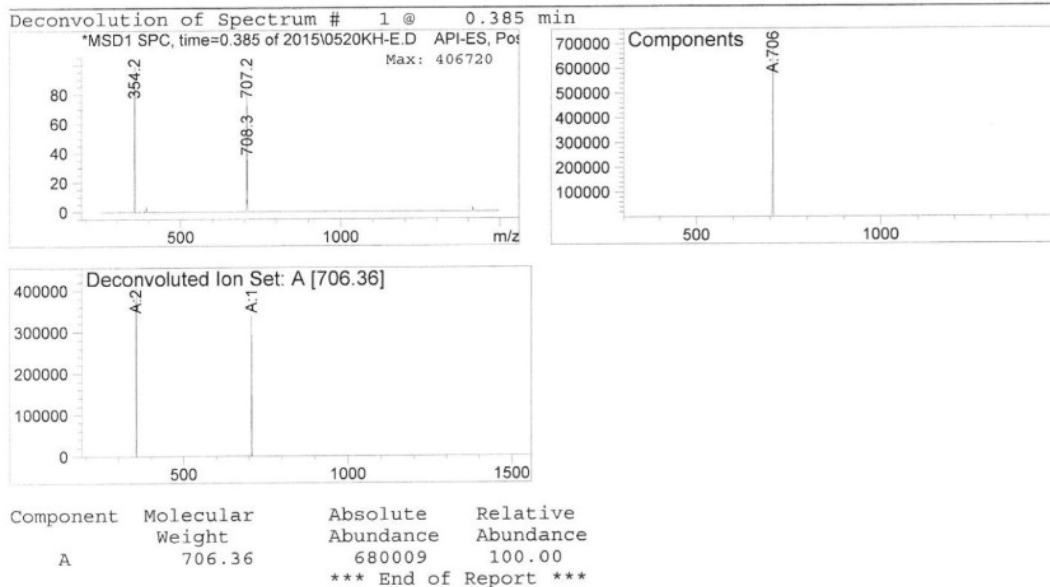


Figure S2. Adhesive Pep 2 (AKPTYK) Analysis Data Sheet.



Peptide Analysis Data Sheet

Orderd by	김 태 윤		
Peptide Name	Pep11 Normal	Peptide Lot. No.	24-61101
Sequence	AYDPGYK		
Quantity Ordered	10 mg	Quantity Delivered	10 mg
Purity	97%		
Molecular Weight	812.37 (Calculated)	MS Found	812
Solubility	DW (10mg/ml)	Appearance	White powder
	Peptide 1mg이 DW(10mg/ml) 농도로 녹았습니다.		
HPLC Analysis	Instrument : SHIMADZU Prominence HPLC System Column : Shiseido capcell pak C18, 5µm, 120 Å Column (4.6 * 50mm) Detection : 220nm Flow Rate : 1.0ml / min Eluent : A;0.1%TFA water, B;0.1%TFA acetonitrile Column Temp. : Room temperature Gradient 3%-10% B in 2 min 10%-40% B in 10 min 40%-60% B in 1 min 60%-3% B in 4 min		
Mass Analysis	Instrument : SHIMADZU LCMS-2020 System		
Comment	Research Use Only		
Storage	Peptide의 화학적 안정성은 아미노산 종류와 서열에 따라 결정 됩니다. Powder 상태의 Peptide는 용매에 녹인 상태보다 안정하며, 변성되는 것을 최소화 하기 위해 Powder 상태로 냉장/냉동 보관 하는 것이 좋습니다. 만약, 용매에 녹이셨다면 1회 사용량씩 소분하여 -20℃ 이하로 냉동 보관 하였다가 사용 할 때마다 바로 녹여 사용하시는 것을 추천 드립니다.		
Released by	적 합		

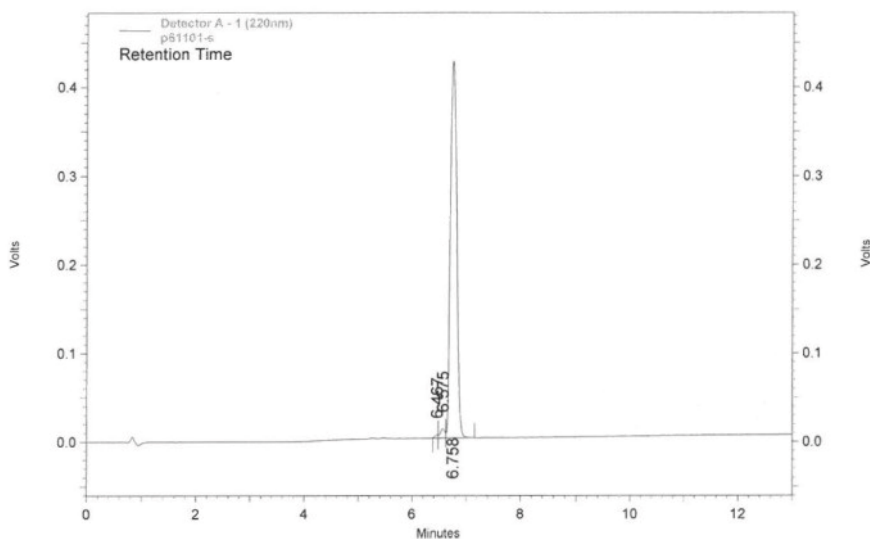
Method Name: D:\Anal-1 Data & Method\Methods\s500.met

Data Name: D:\Anal-1 Data & Method\Data\2024\p61101-s

User: System

Acquired: 2024-10-22 오전 11:58:52

Printed: 2024-10-22 오후 12:23:41



Detector A - 1 (220nm)					
Pk #	Retention Time	Area	Area %	Height	Height %
1	6.467	12357	0.351	3307	0.755
2	6.575	58820	1.669	10205	2.328
3	6.758	3453171	97.980	424774	96.917
Totals		3524348	100.000	438286	100.000

