

CERTIFICATE OF ANALYSIS

Lot Number: **I0913001** Peptide Name: **hgp100(25-33)** Amount Shipped: **10mg**
 Sequence: **NH2-KVPRNQDWL-Acid**

STANDARD QC

<u>Test</u>	<u>Analysis</u>	<u>QC Specifications</u>	<u>Result</u>
Mass ID	Mass Spec	Expected average mass (M+H) of 1155.33 ± 0.1%	1156.38
Purity	Analytical HPLC	Purity greater than 95% by analytical HPLC	99.4%

QC EQUIPMENT MALDI-ToF

MS: Applied Biosystems Voyager DE Pro MALDI-ToF.
Mode: Linear
Matrix: α -cyano cinnamic acid

HPLC System: CXTH Analytical HPLC

Column: Agela C18 Column
Gradient: 28% B to 43% B in 15 min
Buffer A: 0.05% TFA + 2% CH₃CN
Buffer B: 0.05% TFA + 90% CH₃CN

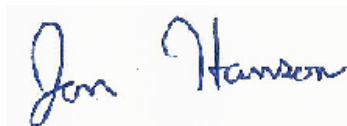
STORAGE AND HANDLING

Suggested storage: Store Dry at -20 °C
Appearance: White powder
Counterion: Trifluoroacetate

Special handling: This peptide contains readily oxidizable residues and should be protected from air exposure

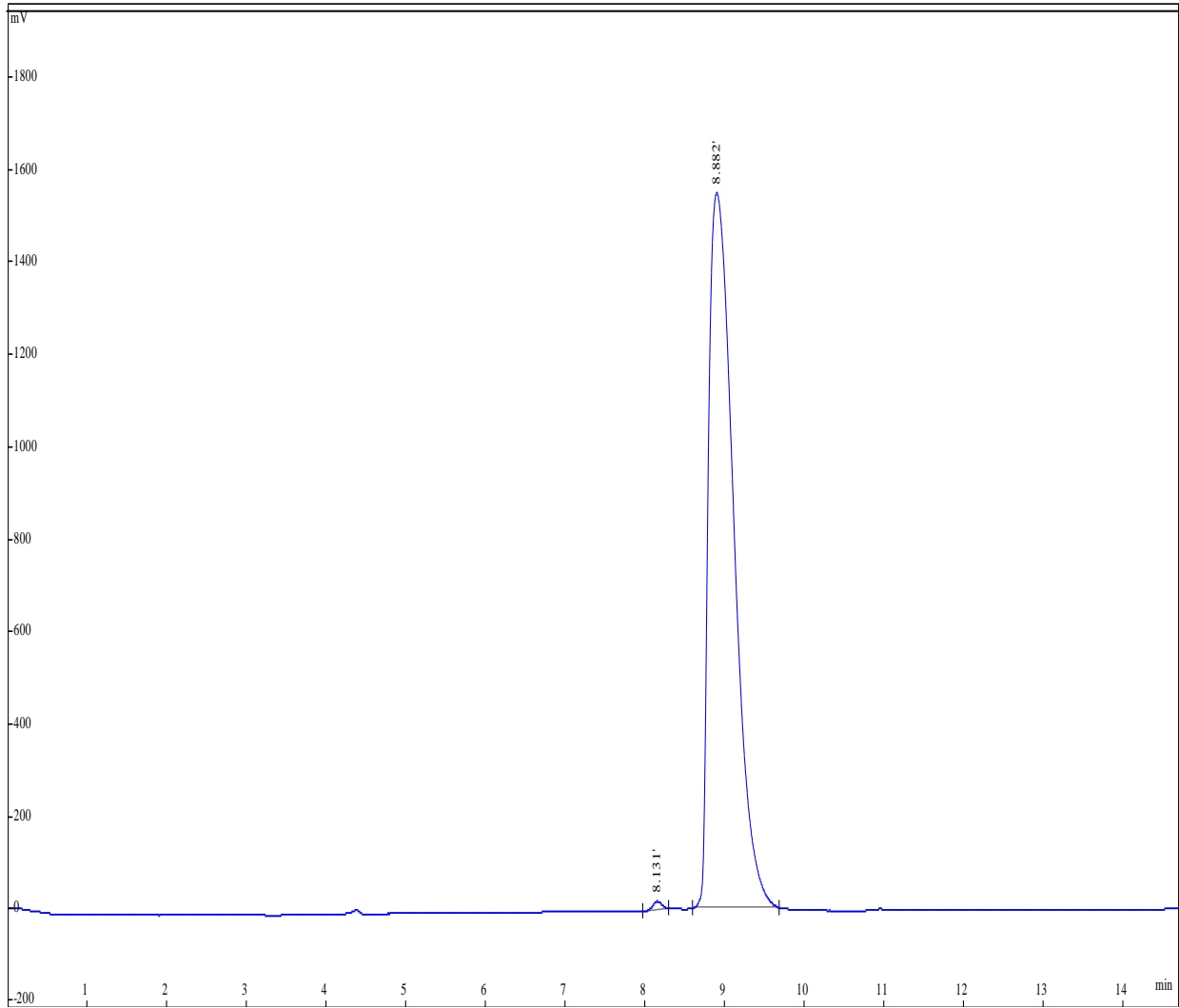
Solubility notes: Dissolve 1mg in 1ml water

Approved:



Date: 2013/09/18

Sample Name: hgp100(25-33)
HPLC System: CXTH Analytical HPLC
HPLC Column: Agela (250x4.6mm I.D.) C18
Detection wavelength: UV3000 at 220nm
Gradient: 28-43%B in 15 min
Buffer A: 0.05%TFA +2%CH₃CN
Buffer B: 0.05%TFA +90%CH₃CN



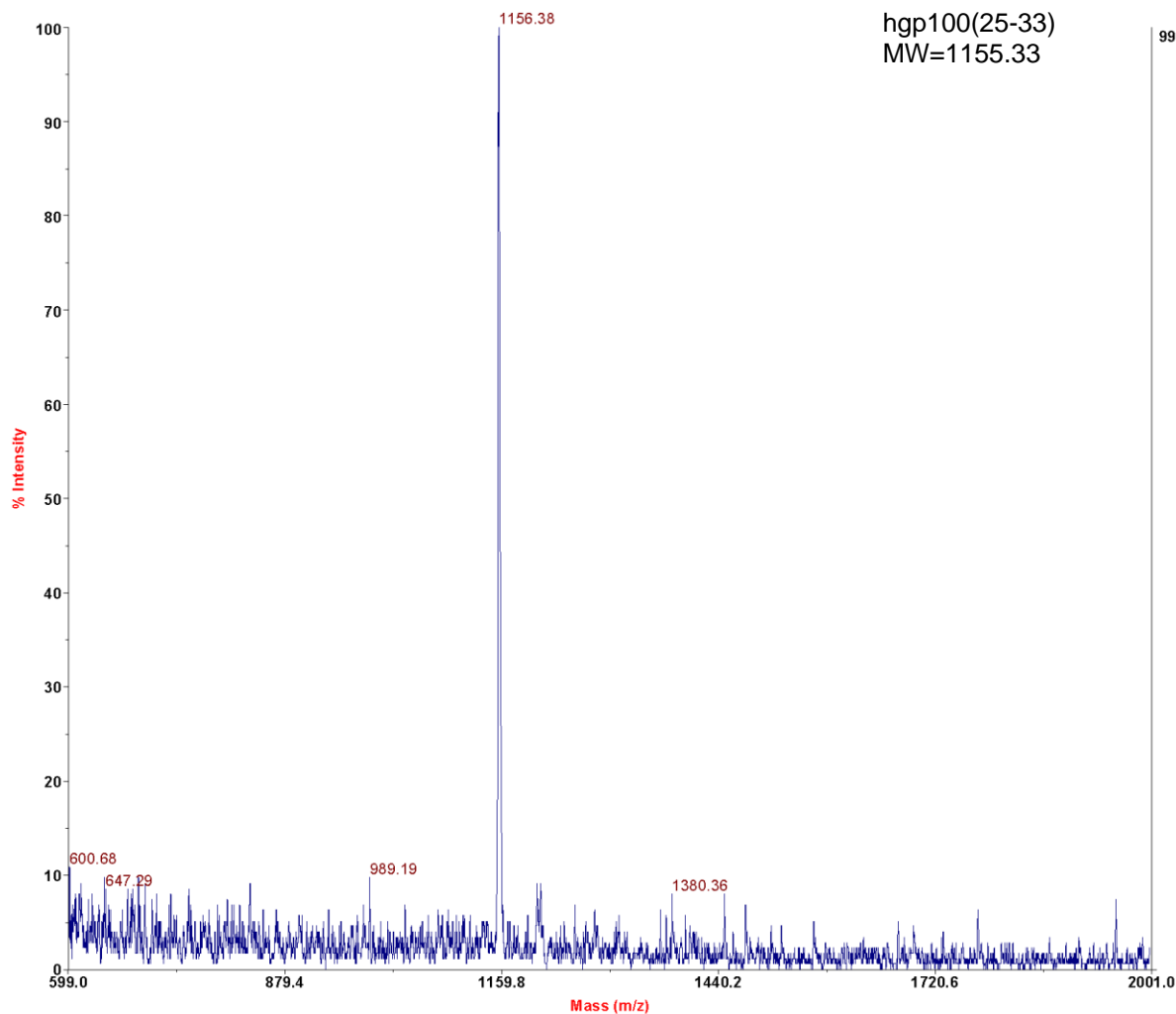
Peak Results

Rank	Time	Conc.	Area	Height
1	8.131	0.5301	180795	21447
2	8.882	99.47	33925626	1546829
Total		100	34106421	1568276

Applied Biosystems Voyager System 6122

Voyager Spec #1=>MC[BP = 1156.2, 996]

hgp100(25-33)
MW=1155.33



Mode of operation: Linear
Extraction mode: Delayed
Polarity: Positive
Acquisition control: Manual

996.0 Accelerating voltage: 20000 V
Grid voltage: 95%
Guide wire 0: 0.08%
Extraction delay time: 400 nsec

Acquisition mass range: 600 -- 2000 Da
Number of laser shots: 50/spectrum
Laser intensity: 4094
Laser Rep Rate: 3.0 Hz
Calibration type: Default
Calibration matrix: a-Cyano-4-hydroxycinnamic acid
Low mass gate: 300 Da

Digitizer start time: 16.861
Bin size: 0.5 nsec
Number of data points: 27668
Vertical scale: 500 mV
Vertical offset: 0.8%
Input bandwidth: 25 MHz

Sample well: 14
Plate ID: 100SS
Serial number: 6122
Instrument name: Voyager-DE PRO
Plate type filename: C:\VOYAGER\gold 100 well plate.pll
Lab name: PE Biosystems

Absolute x-position: 17183.8
Absolute y-position: 41112
Relative x-position: 356.266
Relative y-position: -1115.5
Shots in spectrum: 45
Source pressure: 1.385e-006
Mirror pressure: 3.69e-007
TC2 pressure: 0.001
TIS gate width: 30
TIS flight length: 678

Acquired: 10:12:00, September 17, 2013
\\YXG-NEW\data_new\130917\09146702_0001.dat

Printed: 09:54, September 18, 2013