Supporting information for:
Silent, fluorescent labeling of native neuronal receptors.

Devaiah Vytla¹, Rosamund E. Combs-Bachmann², Amanda M. Hussey¹, Ismail Hafez³, James J. Chambers¹,²

¹Department of Chemistry, University of Massachusetts Amherst, Amherst, MA 01003
²Neuroscience and Behavior Program, University of Massachusetts Amherst, Amherst, MA 01003
³Brain Research Centre, University of British Columbia, British Columbia, Canada
Electronic Supplementary Material (ESI) for Organic & Biomolecular Chemistry
This journal is © The Royal Society of Chemistry 2011

Mass Spectrometry & Proteomics Facility

Analysis Info
Analysis Name: D:\Data\072611\ms\9495-ESI-1.d
Method: cal160-1200.m
Sample Name: comp 19 V02-58-22
Comment: in CH3CN

Acquisition Parameter
Source Type: ESI
Focus: Not active
Ion Polarity: Positive
Scan Begin: 50 m/z
Scan End: 3000 m/z
Set Capillary: 4000 V
Set End Plate Offset: -500 V
Set Nebulizer: 0.4 Bar
Set Dry Heater: 150 °C
Set Dry Gas: 4.0 L/min
Set Divert Valve: Source

Mass Spectrum SmartFormula Report

Acquisition Date: 7/26/2011 3:37:09 PM
Operator: Norka Sevova
Instrument/ Ser# microTOF: 10314

Mass v/z # Formula

895.5539 | C_48H_75N_6O_10 | 895.5539 | -0.7 | 1.2 | 14.5 | ok | even

Chemical Formula: C_48H_75N_6O_10
Exact Mass: 895.5538
Molecular Weight: 895.5534

Bruker Compass DataAnalysis 4.0
Page 1 of 1

This material is based upon work supported by the National Science Foundation under CHE-0741793
**Mass Spectrometry & Proteomics Facility**

**Analysis Info**
- **Analysis Name**: D:\Data\0720111\m&mas8632-ESI-1.d
- **Method**: cal100-1200.m
- **Sample Name**: comp10 VDB-007
- **Comment**: In CH3CN

**Acquisition Parameter**
- **Source Type**: ESI
- **Focus**: Not active
- **Scan Begin**: 50 m/z
- **Scan End**: 3000 m/z
- **Ion Polarity**: Positive
- **Set Nebulizer**: 0.4 bar
- **Set Capillary**: 4800 V
- **Set Dry Heater**: 180 °C
- **Set Exit Plate Offset**: -500 V
- **Set Dry Gas**: 4.6 liters/min
- **Set Diverter Valve**: Sources

**Mass Spectrum SmartFormula Report**
- **Acquisition Date**: 7/20/2011 1:54:58 PM
- **Operator**: Nonka Sevova
- **Instrument / Serial**: micrOTOF 10314

**Chemical Properties**
- **Formula**: C_30 H_53 N_6 O_8
- **Molecular Mass**: 673.4858
- **M+**: 673.4985

**Peak Analysis**
- **m/z**: 673.4858
- **Formula**: C_30 H_53 N_6 O_8
- **Mass Error (ppm)**: 0.0003
- **Mean Error (ppm)**: -3.9
- **N-Rule**: 4.5
- **e-Conf**: ok even

**Printed**: 7/20/2011 2:00:50 PM  Page 1 of 1

This material is based upon work supported by the National Science Foundation under CHE-0741793.
Electronic Supplementary Material (ESI) for Organic & Biomolecular Chemistry
This journal is © The Royal Society of Chemistry 2011

Mass Spectrum SmartFormula Report

Acquisition Date: 7/20/2011 11:53:47 AM
Operator: Nenke Sevova
Instrument / Sort: microTOF 10314

Source Type: ESI
Ion Polarity: Positive
Sample Name: comp5 VD2-3B-RR
Comment: in CH3CN

Intensity x10^4

m/z 627.2696

m/z 805.2849

m/z 643.2412

m/z 605.2817


N-Rule: e^" Conf

Mean err (ppm): -5.3

dd: 11.5
dk: even

Printed: 7/20/2011 11:59:33 AM

used upon work supported by the National Science Foundation under CHE-0741793
Mass Spectrum SmartFormula Report

Acquisition Date: 7/20/2011 2:36:38 PM
Operator: Nonie Sevares
Instrument/Serial: microTOF 10314

**Mass Spectrometry & Proteomics Facility**

**Analysis Info**
- Analysis Name: D:/data/37661/mss9939-ESI-1.d
- Method: ca106-1200.m
- Sample Name: comp7 VD2-122-89
- Comment: n CH2CN

**Acquisition Parameter**
- Source Type: ESI
- Focus: Not active
- Scan Begin: 5.0 m/z 3060 m/z
- Ion Priority: Positive
- Set Capillary: 4500 V
- Set End Plate Offset: n/a
- Set Nebulizer: 0.4 Bar
- Set Dry Heater: 180 °C
- Set Dry Gas: 4.0 l/min
- Set Divert Valve: Source

**Mass Spectrum**

![Mass Spectrum Graph](image)

- Mass, m/z: 513.3623
- Formula: C33 H45 N4 O
- M/z err [ppm]: -6.8
- Mean err [ppm]: -5.8
- N-Rule: ok
- Conf: even

**Chemical Formula**: C33 H45 N4 O
**Exact Mass**: 513.3688
**Molecular Weight**: 513.7361

Printed: 7/20/2011 2:40:31 PM
Page 1 of 1

Supported by the National Science Foundation under CHE-0741793