

Product Name: FFN511

Catalog No.: 3878

Batch No.: 2

CAS Number: 1004548-96-2

IUPAC Name: 9-(2-Aminoethyl)-2,3,6,7-tetrahydro-1*H*,5*H*,11*H*-[1]-benzopyrano[6,7-*ij*]quinolizin-11-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀N₂O₂·¼H₂O

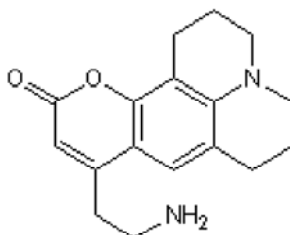
Batch Molecular Weight: 288.85

Physical Appearance: Yellow solid

Solubility: 1eq. HCl to 25 mM
DMSO to 5 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.09 (Chloroform:Methanol [9:1])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.69	7.15	9.73
Found	70.78	7.09	9.73

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

Product Name: FFN511

Catalog No.: 3878

Batch No.: 2

CAS Number: 1004548-96-2

IUPAC Name: 9-(2-Aminoethyl)-2,3,6,7-tetrahydro-1*H*,5*H*,11*H*-[1]-benzopyrano[6,7,8-*ij*]quinolizin-11-one

Description:

Fluorescent false neurotransmitter (FFN). Targets neuronal vesicular monoamine transporter (VMAT) 2; inhibits serotonin binding to VMAT2 (IC₅₀ = 1 μM). Excitation and emission maxima are 406 and 501 nm in pH 7 buffer, respectively.

Physical and Chemical Properties:

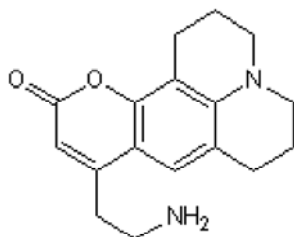
Batch Molecular Formula: C₁₇H₂₀N₂O₂·½H₂O

Batch Molecular Weight: 288.85

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

1eq. HCl to 25 mM

DMSO to 5 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold with the permission of Columbia University

References:

Gubernator *et al* (2009) Fluorescent false neurotransmitters visualize dopamine release from individual presynaptic terminals. *Science* **324** 1441. PMID: 19423778.

Zhang *et al* (2009) Dopamine release at individual presynaptic terminals visualized with FFNs. *J.Vis.Exp.* **30**. PMID: 19721412.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956