

**Product Name:** FFN 206 dihydrochloride

**Catalog No.:** 5043

**Batch No.:** 1

CAS Number: 1883548-88-6

IUPAC Name: 4-(2-Aminoethyl)-7-(methylamino)-2H-1-benzopyran-2-one dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>·2HCl

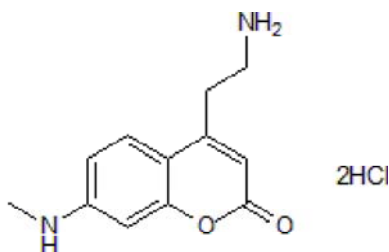
**Batch Molecular Weight:** 291.17

**Physical Appearance:** Beige solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.2 (Dichloromethane:Methanol [19:1])

**HPLC:** Shows 99.0% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	49.5	5.54	9.62
Found	49.34	5.51	9.53

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

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**Description:**

Fluorescent VMAT2 substrate ( $IC_{50}$  app = 1.15  $\mu$ M). Allows detection of VMAT2 subcellular locations in cell culture. Exhibits no detectable inhibition of DAT. Excitation maximum = 369 nm; emission maximum = 464 nm.

**Physical and Chemical Properties:**

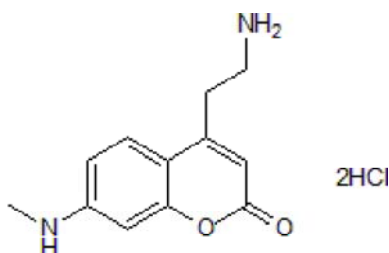
Batch Molecular Formula:  $C_{12}H_{14}N_2O_2 \cdot 2HCl$

Batch Molecular Weight: 291.17

Physical Appearance: Beige solid

**Minimum Purity:**  $\geq 99\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 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  $45-60^{\circ}C$  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  $-20^{\circ}C$  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:**

Hu *et al* (2013) New fluorescent substrate enables quantitative and high-throughput examination of vesicular monoamine transporter 2 (VMAT2). ACS Chem.Biol. **8** 1947. PMID: 23859623.

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