

Certificate of Analysis

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Product Name: FFN 200 dihydrochloride

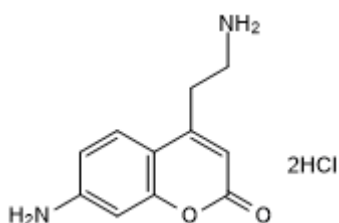
Catalog No.: 5911

Batch No.: 1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄Cl₂N₂O₂
Batch Molecular Weight: 277.15
Physical Appearance: Pale yellow solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	47.67	5.09	10.11	25.58
Found	47.84	5	9.96	25.32

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

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Description:

Selective fluorescent VMAT2 substrate. Selectively traces exocytosis in dopaminergic neuronal cell culture and brain tissue. Excitation and emission maxima are 352 and 451 nm, respectively.

Physical and Chemical Properties:

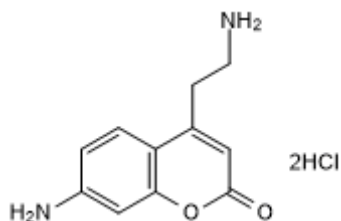
Batch Molecular Formula: C₁₁H₁₄Cl₂N₂O₂

Batch Molecular Weight: 277.15

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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 100 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:

Li (2017) Probes for monitoring regulated exocytosis Cell Calcium.

Pereira *et al* (2015) Fluorescent false neurotransmitter reveals functionally silent dopamine vesicle clusters in the striatum. Nat.Neurosci. **19** 578. PMID: 26900925.

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