

Product Name: FFN 270

Catalog No.: 6717

Batch No.: 1

IUPAC Name: 3-(2-Aminoethyl)-8-fluoro-7-hydroxy-2*H*-chromen-2-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₀FNO₃.HCl.¼H₂O

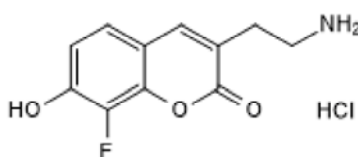
Batch Molecular Weight: 264.16

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	50.01	4.39	5.3
Found	50.15	4.21	5.41

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

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Batch No.: 1

IUPAC Name: 3-(2-Aminoethyl)-8-fluoro-7-hydroxy-2H-chromen-2-one hydrochloride

Description:

Fluorescent false neurotransmitter (FFN). Fluorescent substrate for NET and VMAT2. Labels noradrenergic neurons and their synaptic vesicles, and enables imaging of synaptic vesicle content release from specific axonal sites *in vivo*. Selectively labels NA neurons over other monoamine and CNS targets. Exhibits two resolved absorption/excitation maxima depending on solvent pH (excitation maxima: 320 nm or 365 nm, emission maxima: 475 nm).

Physical and Chemical Properties:

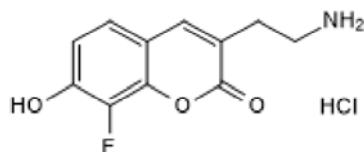
Batch Molecular Formula: C₁₁H₁₀FNO₃.HCl.¼H₂O

Batch Molecular Weight: 264.16

Physical Appearance: Beige 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:

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:

Dunn et al (2018) Designing a norepinephrine optical tracer for imaging individual noradrenergic synapses and their activity *in vivo*. *Nat. Commun.* **9** 2838. PMID: 30026491.

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