

Product Name: PA Nic

Catalog No.: 6700

Batch No.: 1

IUPAC Name: (1*s*,2*s*)-1-((7-(Bis(carboxymethyl)amino)-2-oxo-2*H*-chromen-4-yl)methyl)-1-methyl-2-(pyridin-3-yl)pyrrolidin-1-ium ditrifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₆N₃O₆·C₂F₃O₂·C₂HF₃O₂

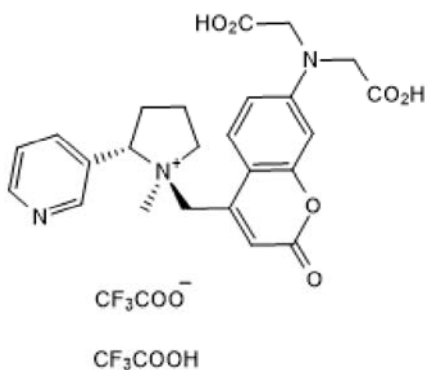
Batch Molecular Weight: 679.52

Physical Appearance: Yellow solid

Solubility: water to 25 mM
DMSO to 25 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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:

Coumarin-caged nicotine. Releases nicotine when exposed to 390 ± 10 nm wavelength light (λ_{max} = 404 nm). Suitable for two-photon uncaging at

Physical and Chemical Properties:

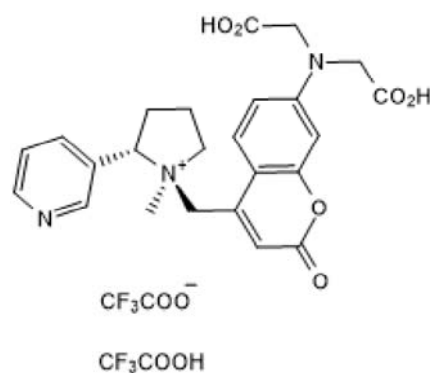
Batch Molecular Formula: C₂₄H₂₆N₃O₆.C₂F₃O₂.C₂HF₃O₂

Batch Molecular Weight: 679.52

Physical Appearance: 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 25 mM

DMSO to 25 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.

References:

Arvin et al (2019) Probing nicotinic acetylcholine receptor function in mouse brain slices via laser flash photolysis of photoactivatable nicotine. *J.Vis.Exp.* **143** e58873. PMID: 30735191.

Banala et al (2018) Photoactivatable drugs for nicotinic optopharmacology. *Nat.Methods* **15** 347. PMID: 29578537.

Yan et al (2018) Nicotinic cholinergic receptors in VTA glutamate neurons modulate excitatory transmission. *Cell Rep.* **23** 2236. PMID: 29791835.

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