

Product Name: 5-Nonyloxytryptamine oxalate

Catalog No.: 0901

Batch No.: 7

CAS Number: 157798-13-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₃₀N₂O.C₂H₂O₄.¼H₂O

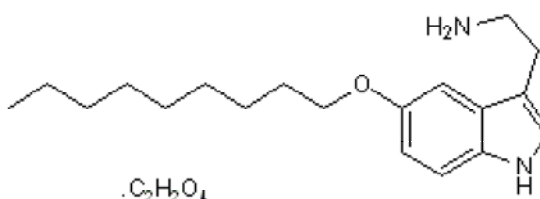
Batch Molecular Weight: 396.99

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.53	8.25	7.06
Found	63.57	8.01	7.11

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: 5-Nonyloxytryptamine oxalate

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Description:

5-HT_{1B} selective agonist, several times more potent than sumatriptan and inactive as a 5-HT_{1A} agonist (K_i at 5-HT_{1B} = 1 nM, selectivity over 5-HT_{1A} > 300-fold). Mimics polysialic acid activity, stimulates neuritogenesis, myelination and Schwann cell migration in vitro.

Physical and Chemical Properties:

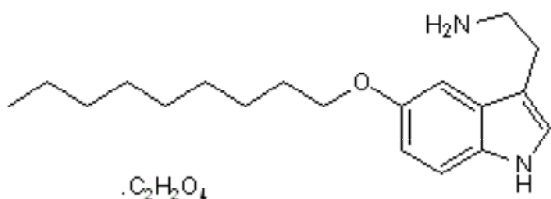
Batch Molecular Formula: C₁₉H₃₀N₂O.C₂H₂O₄.¼H₂O

Batch Molecular Weight: 396.99

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Loers et al (2013) Nonyloxytryptamine mimics polysialic acid and modulates neuronal and glial functions in cell culture. *J.Neurochem.* **128** 88. PMID: 23957498.

Glennon et al (1996) Binding of O-Alkyl derivatives of serotonin at human 5-HT_{1Dβ} receptors. *J.Med.Chem.* **39** 314. PMID: 8568822.

Glennon et al (1994) 5-(Nonyloxy)tryptamine: a novel high affinity-5-HT_{1Dβ} serotonin receptor agonist. *J.Med.Chem.* **37** 2828. PMID: 8071931.

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