

Product Name: *cis*-Ned 19

Catalog No.: 3953

Batch No.: 1

CAS Number: 1137264-00-6

IUPAC Name: (1*S*,3*S*)-1-[3-[[4-(2-Fluorophenyl)piperazin-1-yl]methyl]-4-methoxyphenyl]-2,3,4,9-tetrahydro-1*H*-pyrido[3,4-*b*]indole-3-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₁FN₄O₃·1½H₂O

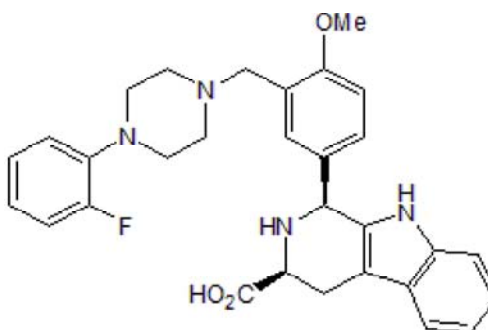
Batch Molecular Weight: 541.61

Physical Appearance: Cream solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Chloroform:Methanol [4:1])

HPLC: Shows 97.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.53	6.33	10.34
Found	66.87	6.07	10.17

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:

Irreversible nicotinic acid adenine dinucleotide phosphate (NAADP) antagonist; inhibits Ca²⁺ release (IC₅₀ = 800 nM) and [³²P]NAADP binding (IC₅₀ = 15 μM). Stereoisomer of trans-Ned 19. Fluorescently labels NAADP receptors in intact cells (excitation 351 and 365 nm using an ultraviolet Argon laser). Isomer of trans-Ned 19.

Physical and Chemical Properties:

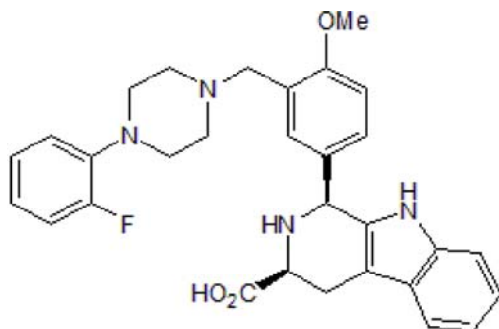
Batch Molecular Formula: C₃₀H₃₁FN₄O₃ · 1½H₂O

Batch Molecular Weight: 541.61

Physical Appearance: Cream solid

Minimum Purity: >97%

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.

References:

Naylor *et al* (2009) Identification of a chemical probe for NAADP by virtual screening. *Nat.Chem.Biol.* **5** 220. PMID: 19234453.

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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

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www.tocris.com/distributors

Tel:+1 612 379 2956