

Certificate of Analysis

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Product Name: *trans*-Ned 19

Catalog No.: 3954

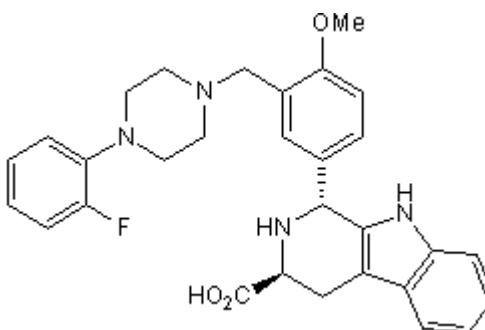
Batch No.: 2

CAS Number: 1354235-96-3

IUPAC Name: (1*R*,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:	C ₃₀ H ₃₁ FN ₄ O ₃ · ³ / ₄ H ₂ O
Batch Molecular Weight:	528.1
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.16 (Chloroform:Methanol [4:1])
HPLC:	Shows 99.1% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	68.23	6.2	10.61
Found	67.83	5.79	10.59

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

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Description:

Nicotinic acid adenine dinucleotide phosphate (NAADP) antagonist. Inhibits NAADP-mediated Ca²⁺ release (IC₅₀ = 6 nM); also inhibits [³²P]NAADP binding (IC₅₀ = 0.4 nM). Fluorescently labels NAADP receptors in intact cells. Stereoisomer of *cis*-Ned 19 (Cat. No. 3953).

Physical and Chemical Properties:

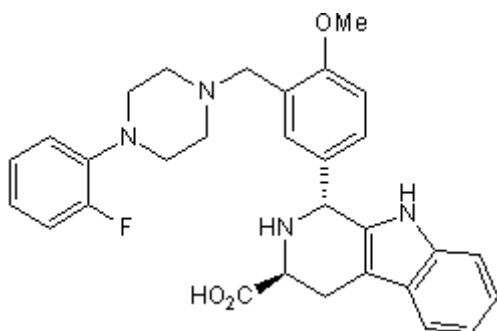
Batch Molecular Formula: C₃₀H₃₁FN₄O₃·¾H₂O

Batch Molecular Weight: 528.1

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

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

Rosen *et al* (2009) Analogues of the nicotinic acid adenine dinucleotide phosphate (NAADP) antagonist Ned-19 indicate two binding sites on the NAADP receptor. *J.Biol.Chem.* **284** 34930. PMID: 19826006.

Thai *et al* (2009) NAADP receptors mediate calcium signaling stimulated by endothelin-1 and norepinephrine in renal afferent arterioles. *Am.J.Physiol.Renal Physiol.* **297** F510. PMID: 19439521.

Storage: Store at -20°C

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.

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