trans-Ned-19

Cell permeable, selective and potent inhibitor of nicotinic acid adenine dinucleotide phosphate (NAADP) receptor in mammalian cells and sea urchin eggs. Blocks NAADP signaling. Inhibits Ca^{2+} release: *trans*-Ned-19 (IC_{50} = 6nM); *cis*-Ned-19 (IC_{50} = 800nM). [^{32}P] NAADP binding: *trans*-Ned-19 (IC_{50} = 0.4nM); *cis*-Ned-19 (IC_{50} = 15µM).Inhibits Ca^{2+} release from lysosomes. Noncompetitive antagonist. Fluorescent.

NAADP (nicotinic acid adenine dinucleotide phosphate) is an emerging $Ca2^{+}$ releasing second messenger in several mammalian tissues including pancreatic, brain and cardiac tissue.

Citations: 28 View Online »

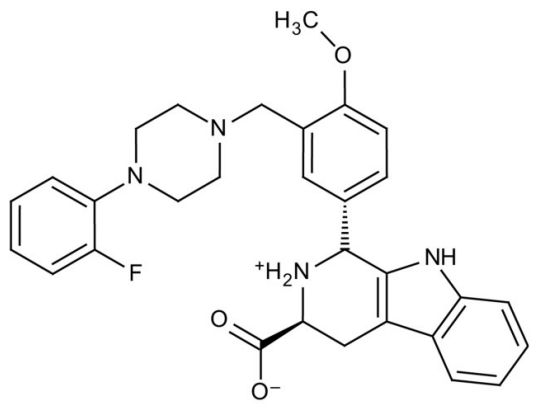
Ordering Information

Order Online »

ALX-270-503-MC05	0.5mg

Manuals, SDS & CofA

View Online »


H3C
O
N
N
F
+H2N
NH
O
O−

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	1-(3-((4-(2-Fluorophenyl)piperazin-1-yl)methyl)-4-methoxyphenyl)-2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indole-3-carboxylic acid
Appearance	White to off-white powder.
Couple Target	NAADP receptor
Couple Type	Inhibitor
Formula	$C_{30}H_{31}FN_4O_3$
Identity	Determined by 1H-NMR and MS.
MW	514.6
Purity	≥97% (HPLC)
Solubility	Soluble in DMSO or 100% ethanol.
Source	Synthetic
Technical Info / Product Notes	Fluorescence of Ned-19 is compatible with visualization of the NAADP receptor in intact cells via confocal microscopy using an ultraviolet Argon ion laser (excitation 351 and 365 nm).

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