
Product Data Sheet

Product Name: Ned 19
Cat. No.: GC36713

Chemical Properties

Cas. No. 874374-25-1

SMILES OC(C(C1)NC(C2=CC=C(OC)C(CN3CCN(C4=CC=CC=C4F)CC3)=C2)C5=C1C6=C(N5)C=CC=C6)=O

Formula $C_{30}H_{31}FN_4O_3$ M.Wt 514.59

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice Condition upon request.

Structure

Background

Ned 19 is a selective membrane-permeant non competitive NAADP antagonist and inhibits NAADP-mediated Ca^{2+} signaling, with an IC_{50} of 65 nM[1]. Ned 19 strongly inhibits tumor growth and vascularization as well as lung metastases in mice[2]. Ca^{2+}

Ned 19 (25-100 μ M; 24-72 hours) reduces cell proliferation[2]. Ned 19 (25-100 μ M; 24-72 hours) reduces markedly the cell number[2]. Ned 19 (25-100 μ M; 24-72 hours) reduces the S phase percentage and increases of the G0/G1 phase percentage evaluated by cell cycle analysis[2]. Ned 19 (25-100 μ M; 24-72 hours) induces cell apoptosis a time-dependent manner[2]. Ned 19 (25-100 μ M; 24-72 hours) reduces expression of N-cadherin and increases expression of E-cadherin, affecting the cell migratory behavior[2]. Cell Proliferation Assay[2] Cell Line: B16 cells

Ned 19 (i.p.; 5 mg/Kg/every second day; 4 week) impaires severely tumor growth[2]. Animal Model: Adult male C57BL/6 mice[2]

[1]. Rosen D, et al. Analogues of the nicotinic acid adenine dinucleotide phosphate (NAADP) antagonist Ned-19 indicate two binding sites on the NAADP receptor. J Biol Chem. 2009 Dec 11;284(50):34930-4. [2]. Annarita Favia, et al. NAADP-Dependent Ca^{2+} Signaling Controls Melanoma Progression, Metastatic Dissemination and Neoangiogenesis. Sci Rep. 2016; 6: 18925.

Caution: Product has not been fully validated for medical applications. For research use only.

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