

NVX-207

Chemical Properties

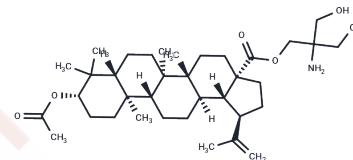
CAS No. : 745020-66-0

Formula: C₃₆H₅₉N₁O₆

Molecular Weight: 601.86

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	NVX-207 is a derivative of betulinic acid. It has anti-cancer activity.
Targets(IC50)	Apoptosis,Others
In vitro	NVX-207 decreases cell death via apoptosis. NVX-207 has high cytotoxicity (IC50: ranging from 7.6-8.5 μM), in the three analyzed malignant glioma cell lines. NVX-207 leads to PARP cleavage and to a decrease in Survivin expression levels under normoxic and hypoxic conditions. NVX-207 displays anti-tumor activity (mean IC50 = 3.5 μM) against various human and canine cell lines. NVX-207-induced apoptosis is associated with activation of the intrinsic apoptotic pathway via cleavage of caspases -9, -3, -7, and of poly (ADP-ribose) polymerase (PARP). NVX-207 (20 μM) induces a significantly high rate of necrosis of glioma cell lines[1][2].
In vivo	The intravenous application of NVX-207 is well tolerated in mice[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (207.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.48 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6615 mL	8.3076 mL	16.6152 mL
5 mM	0.3323 mL	1.6615 mL	3.323 mL
10 mM	0.1662 mL	0.8308 mL	1.6615 mL
50 mM	0.0332 mL	0.1662 mL	0.3323 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Willmann M, et al. Characterization of NVX-207, a novel betulinic acid-derived anti-cancer compound. *Eur J Clin Invest.* 2009 May;39(5):384-94.

Bache M, et al. Betulinic acid derivatives NVX-207 and B10 for treatment of glioblastoma--an in vitro study of cytotoxicity and radiosensitization. *Int J Mol Sci.* 2014 Oct 30;15(11):19777-90.

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