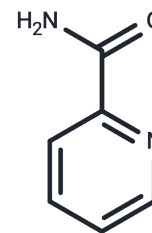


Picolinamide

Chemical Properties

CAS No. :	1452-77-3
Formula:	C ₆ H ₆ N ₂ O
Molecular Weight:	122.12
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	Picolinamide (Picolinoylamide) is found to be a strong inhibitor of poly (ADP-ribose) synthetase of nuclei from rat pancreatic islet cells.
Targets(IC50)	PARP
In vitro	In AR-HEK293 cells stably expressing full-length hAR, ODM-201 inhibits human AR (hAR) with IC50 of 26 nM. ODM-201 inhibits VCaP cell proliferation with IC50 of 230 nM, while has no effect on the viability of AR-negative cell lines tested, DU-145 prostate cancer cells and H1581 lung cancer cells. [1]
In vivo	Overnight treatment of rats with picolinamide, administered as a single injection (4 mmol/kg), inhibits Na ⁺ /phosphate cotransport by isolated renal brush border membrane vesicles. There is only a small increase (1.5-fold) in renal cortical NAD content after picolinamide treatment[3].

Solubility Information

Solubility	Ethanol: 23 mg/mL (188.34 mM),Sonication is recommended. DMSO: 45 mg/mL (368.49 mM),Sonication is recommended. H2O: 22 mg/mL (180.15 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: 2 mg/mL (16.38 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	8.1887 mL	40.9433 mL	81.8867 mL
5 mM	1.6377 mL	8.1887 mL	16.3773 mL
10 mM	0.8189 mL	4.0943 mL	8.1887 mL
50 mM	0.1638 mL	0.8189 mL	1.6377 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

- Yamagami T, et al. Cancer Res. 1985, 45(4):1845-9.
- Uchigata Y, et al. J Biol Chem. 1982, 257(11):6084-8.
- Campbell PI, et al. J Pharmacol Exp Ther. 1989, 251(1):188-92.

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