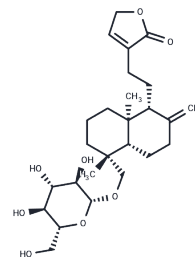


Neoandrographolide

Chemical Properties

CAS No. :	27215-14-1
Formula:	C ₂₆ H ₄₀ O ₈
Molecular Weight:	480.59
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	Neoandrographolide (Neoandrographiside) has potent hypolipidemic effect and protects the cardiovascular without significant liver damage. Neoandrographolide has anti-inflammatory effect, might result from inhibition of iNOS and COX-2 expression through inhibiting p38 MAPKs activation. Neoandrographolide as chemosensitizer in S-Jurkat and X chromosome-linked inhibitor of apoptosis protein (XIAP)-overexpressing Jurkat cells, a model for chemoresistance.
Targets(IC50)	CaMK, Apoptosis, ERK, NOS, NF-κB, NO Synthase, COX, GSK-3, JNK, p38 MAPK, PI3K, PPAR, ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (520.19 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: 10 mg/mL (20.81 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	2.0808 mL	10.4039 mL	20.8078 mL
5 mM	0.4162 mL	2.0808 mL	4.1616 mL
10 mM	0.2081 mL	1.0404 mL	2.0808 mL
50 mM	0.0416 mL	0.2081 mL	0.4162 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

- Yang T, et al. Hypolipidemic effects of andrographolide and neoandrographolide in mice and rats. *Phytother Res.* 2013 Apr;27(4):618-23.
- Zhang J, Sun Y, Zhong L Y, et al. Structure-based discovery of neoandrographolide as a novel inhibitor of Rab5 to suppress cancer growth. *Computational and Structural Biotechnology Journal.* 2020, 18: 3936-3946.
- Jiang H, Chen J, Li X, et al. Systematic Identification of Chemical Components in Fufang Shuanghua Oral Liquid and Screening of Potential Active Components Against SARS-CoV-2 Protease. *Journal of Pharmaceutical and Biomedical Analysis.* 2022: 115118.
- Pfisterer PH, et al. Neoandrographolide from *Andrographis paniculata* as a potential natural chemosensitizer. *Planta Med.* 2010 Oct;76(15):1698-700.
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- Zhang J, Sun Y, Zhong L Y, et al. Structure-based discovery of neoandrographolide as a novel inhibitor of Rab5 to suppress cancer growth[J]. *Computational and Structural Biotechnology Journal.* 2020, 18: 3936-3946.

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