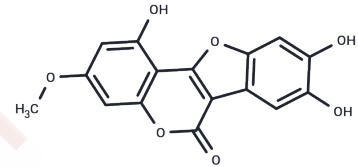


Wedelolactone

Chemical Properties

CAS No. :	524-12-9
Formula:	C ₁₆ H ₁₀ O ₇
Molecular Weight:	314.25
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	Wedelolactone (IKK Inhibitor II) inhibits NF-κB-mediated gene transcription in cells by blocking the phosphorylation and degradation of IκBα.
Targets(IC50)	Apoptosis, NF-κB, Caspase, Lipoyxygenase

Solubility Information

Solubility	DMSO: 252.5 mg/mL (803.5 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5.7 mg/mL (18.14 mM), Solution. <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	3.1822 mL	15.9109 mL	31.8218 mL
5 mM	0.6364 mL	3.1822 mL	6.3644 mL
10 mM	0.3182 mL	1.5911 mL	3.1822 mL
50 mM	0.0636 mL	0.3182 mL	0.6364 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

- Pan H, Lin Y, Dou J, et al. Wedelolactone facilitates Ser/Thr phosphorylation of NLRP3 dependent on PKA signalling to block inflammasome activation and pyroptosis. *Cell Proliferation*. 2020, 53(9): e12868
- Nehybová T, et al. Wedelolactone Acts as Proteasome Inhibitor in Breast Cancer Cells. *Int J Mol Sci*. 2017 Mar 29;18(4).
- ROMANCHIKOVA N, TRAPENCIERIS P. Wedelolactone Targets EZH2-mediated Histone H3K27 Methylation in Mantle Cell Lymphoma[J]. *Anticancer research*. 2019, 39(8): 4179-4184.
- ROMANCHIKOVA N, TRAPENCIERIS P. Wedelolactone Targets EZH2-mediated Histone H3K27 Methylation in Mantle Cell Lymphoma. *Anticancer Research*. 2019, 39(8): 4179-4184
- Wang Z, Yan H, He F, et al. Inhibition of Herpes Simplex Virus by Wedelolactone via Targeting Viral Envelope and Cellular TBK1/IRF3 and SOCS1/STAT3 pathways. *International Journal of Antimicrobial Agents*. 2023: 107000.
- Chen J, Zhou X, Fu L, et al. Natural Product-Based Screening for Lead Compounds Targeting SARS CoV-2 Mpro[J]. *Pharmaceuticals*, 2023, 16(5): 767.. *Pharmaceuticals*. 2023, 16(5): 767.
- Chen P, Zhu Z, Geng H, et al. Integrated Spatial Metabolomics and Transcriptomics Decipher the Hepatoprotection Mechanisms of Wedelolactone and Demethylwedelolactone on Non-alcoholic Fatty Liver Disease. *Journal of Pharmaceutical Analysis*. 2023
- Cai R, Gong X, Li X, et al. Dectin-1 aggravates neutrophil inflammation through caspase-11/4-mediated macrophage pyroptosis in asthma. *Respiratory Research*. 2024, 25(1): 1-19.

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