

Amorphigenin

Chemical Properties

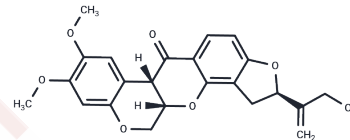
CAS No. : 4208-09-7

Formula: C₂₃H₂₂O₇

Molecular Weight: 410.42

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	Amorphigenin, a rotenoid compound, exhibits a strong larvicidal activity.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4365 mL	12.1826 mL	24.3653 mL
5 mM	0.4873 mL	2.4365 mL	4.8731 mL
10 mM	0.2437 mL	1.2183 mL	2.4365 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

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- Liang Y, Li X, Gu Z, Qin P, Ji M. Toxicity of amorphigenin from the seeds of *Amorpha fruticosa* against the larvae of *Culex pipiens pallens* (Diptera: Culicidae). *Molecules*. 2015 Feb 16;20(2):3238-54. doi: 10.3390/molecules20023238. PubMed PMID: 25690287.
- Zhong H, Zuo Y, Wu X, Peng Y, He H, Yang J, Guan C, Xu Z. [Synergistic Antitumor Effect of Amorphigenin Combined with Cisplatin in Human Lung Adenocarcinoma A549/DDP Cells]. *Zhongguo Fei Ai Za Zhi*. 2016 Dec 20;19(12):805-812. Chinese. PubMed PMID: 27978865; PubMed Central PMCID: PMC5973453.
- Kim BG, Kwak HB, Choi EY, Kim HS, Kim MH, Kim SH, Choi MK, Chun CH, Oh J, Kim JJ. Amorphigenin inhibits Osteoclast differentiation by suppressing c-Fos and nuclear factor of activated T cells. *Anat Cell Biol*. 2010 Dec;43(4):310-6. doi: 10.5115/acb.2010.43.4.310. Epub 2010 Dec 31. PubMed PMID: 21267405; PubMed Central PMCID: PMC3026183.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481