

Asebogenin

Chemical Properties

CAS No. : 520-42-3

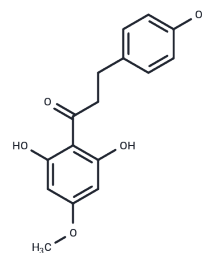
Formula: C₁₆H₁₆O₅

Molecular Weight: 288.3

Storage: Store at low temperature, Keep away from direct sunlight

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 | Asebogenin is a natural product isolated from the leaves of <i>Pieris japonica</i> that exhibits antifungal activity, inhibits GPVI-induced platelet responses, and suppresses NET formation induced by pro-inflammatory stimuli. |
| Targets(IC50) | Syk, Antifungal |
| In vitro | Asebogenin inhibited a series of GPVI-induced platelet responses and suppressed NETs formation induced by proinflammatory stimuli. Mechanistically, asebogenin directly interfered with the phosphorylation of Syk at Tyr525/526[1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 3.4686 mL | 17.343 mL | 34.6861 mL |
| 5 mM | 0.6937 mL | 3.4686 mL | 6.9372 mL |
| 10 mM | 0.3469 mL | 1.7343 mL | 3.4686 mL |
| 50 mM | 0.0694 mL | 0.3469 mL | 0.6937 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

Polat MF. Synthesis of Asebogenin and Balsacone A Precursor by a Novel Synthetic Strategy: Recent Opportunities for and Challenges of Total Synthesis of Balsacone A. *Molecules*. 2022 May 30;27(11):3523.

Li L, et al. Asebogenin suppresses thrombus formation via inhibition of Syk phosphorylation. *Br J Pharmacol*. 2023 Feb;180(3):287-307.

Yao GM, Ding Y, Zuo JP, et al. Dihydrochalcones from the leaves of *Pieris japonica*. *J Nat Prod*. 2005;68(3):392-396.

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