

Soyasapogenol A

Chemical Properties

CAS No. : 508-01-0

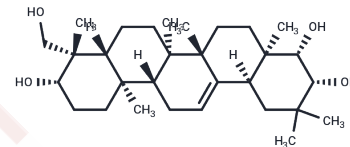
Formula: C₃₀H₅₀O₄

Molecular Weight: 474.72

Keep away from direct sunlight

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

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| Description | Soyasapogenol A is a natural triterpene that protects against the concanavalin A-induced hepatitis immune response, inhibits hepatocyte apoptosis, and suppresses elevated plasma TNF- α levels. Soyasapogenol A also induces apoptosis in Hep-G2 cells. |
| Targets(IC50) | Apoptosis, Immunology/Inflammation related, TNF |
| In vitro | Soyasapogenol A (1-64 μ M, 48 hours) showed significant cytotoxicity against multiple cancer cell lines (U2OS, SKOV3, Saos-2, MDA-MB-231) and also exhibited notable cytotoxicity in p53-deficient cancer cells (SKOV3 and Saos-2) [4]. |
| In vivo | Soyasapogenol A (15 mg/kg, intragastric administration) significantly inhibited the growth of tumor volume in the subcutaneous parazacco spilurus subsp. spilurus xenograft model of SKOV-3 cells and effectively reduced lung metastasis of tumors in the tail vein parazacco spilurus subsp. spilurus xenograft model of SKOV-3 cells [4]. |

Solubility Information

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|------------|---|
| Solubility | DMSO: 80 mg/mL (168.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.1065 mL | 10.5325 mL | 21.065 mL |
| 5 mM | 0.4213 mL | 2.1065 mL | 4.213 mL |
| 10 mM | 0.2107 mL | 1.0533 mL | 2.1065 mL |
| 50 mM | 0.0421 mL | 0.2107 mL | 0.4213 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

- Zhang W, et al. Effect of soyasapogenol A and soyasapogenol B concentrated extracts on HEP-G2 cell proliferation and apoptosis. *J Agric Food Chem.* 2008 Apr 23;56(8):2603-8.
- Kuzuhara H, et al. Protective effects of soyasapogenol A on liver injury mediated by immune response in a concanavalin A-induced hepatitis model. *Eur J Pharmacol.* 2000 Mar 10;391(1-2):175-81.
- Guang C, et al. Biological functionality of soyasaponins and soyasapogenols. *J Agric Food Chem.* 2014 Aug 20;62(33):8247-55.
- Omar A, et al. Soyasapogenol-A targets CARF and results in suppression of tumor growth and metastasis in p53 compromised cancer cells. *Sci Rep.* 2020 Apr 14;10(1):6323.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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