

Skyrin

Chemical Properties

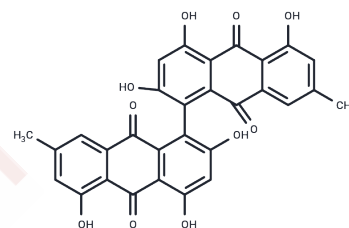
CAS No. : 602-06-2

Formula: C₃₀H₁₈O₁₀

Molecular Weight: 538.46

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	Skyrin is a natural bis-anthraquinone derivative and receptor-selective glucagon antagonist that inhibits the growth of HeLa, Vero, K562, Raji, Wish, and Calu-1 tumour cell lines.
Targets(IC50)	Apoptosis, Glucagon Receptor
In vitro	Methods: Skyrin (0.0001-100 μ M) was treated with plasmid DNA. The effects of skyrin on plasmid DNA were investigated using DNA topology. The potential DNA protection against Fe ²⁺ -induced DNA breaks was also assessed. Results: Skyrin at all tested concentrations (0.0001-100 μ M) showed no DNA damaging properties (Figure 1). The ability of skyrin to protect plasmid DNA increased in a concentration-dependent manner, and strong DNA protection was observed in samples with higher skyrin concentrations (5-100 μ M). [2]

Solubility Information

Solubility	Ethanol: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8571 mL	9.2857 mL	18.5715 mL
5 mM	0.3714 mL	1.8571 mL	3.7143 mL
10 mM	0.1857 mL	0.9286 mL	1.8571 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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

Parker, J.C., McPherson, R.K., Andrews, K.M., et al. Effects of skyrin, a receptor-selective glucagon antagonist, in rat and human hepatocytes. *Diabetes* 49, 2079-2086 (2012).

Zajičková T, et al. Comparison of Cytotoxic, Genotoxic, and DNA-Protective Effects of Skyrin on Cancerous vs. Non-Cancerous Human Cells. *Int J Mol Sci.* 2022 May 10;23(10):5339.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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