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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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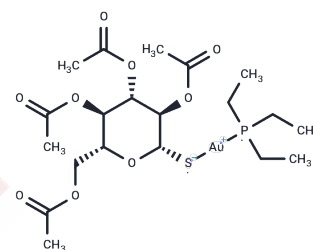
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Auranofin

Chemical Properties

CAS No. :	34031-32-8
Formula:	C ₂₀ H ₃₄ AuO ₉ PS
Molecular Weight:	678.49
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Auranofin (SKF-39162) is an antirheumatic agent, is used to treat rheumatoid arthritis, improves arthritis symptoms including painful or tender and swollen joints and morning stiffness.
Targets(IC50)	Others,SARS-CoV,Antibacterial
In vitro	Auranofin, an established rheumatoid arthritis treatment, also shows promise across a spectrum of other conditions such as cancer and neurodegenerative diseases. It triggers apoptosis via a Bax/Bak-dependent pathway by selectively disrupting mitochondrial redox balance and oxidizing Prx3[1]. Furthermore, auranofin hampers SKOV3 cell proliferation and survival in a dose- and time-specific manner, instigating caspase-3 activation, elevating pro-apoptotic Bax and Bim proteins, and diminishing the anti-apoptotic Bcl-2 in SKOV3 cells[2]. This lipophilic gold-based agent, known for its anti-inflammatory and immunosuppressive characteristics, notably impedes cell growth and induces mitochondrial apoptosis in PC3 human prostate cancer cells, with a noteworthy reduction in cell viability at an IC50 of 2.5 μM after 24 hours[3].
In vivo	Prophylactic treatment of adjuvant-induced arthritis rats with auranofin results in a slight reduction in paw edema, a complete normalization of the depressed IL-2 production, and a reduction of the elevated IL-1 production, without effect on the depressed IL-3 production[4].
Cell Research	Auranofin is dissolved in DMSO. Cells are treated with auranofin (0, 50, 100, 200 and 400 nM) for 72 h for the dose-dependent response assay and 100 nM of auranofin is added into the wells for 0, 24, 72 and 120 h for the time-dependent response assay. Control cultures are treated with DMSO. Cell viability is measured by the MTT assay[2].

Solubility Information

Solubility	DMSO: 22.5 mg/mL (33.16 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4739 mL	7.3693 mL	14.7386 mL
5 mM	0.2948 mL	1.4739 mL	2.9477 mL
10 mM	0.1474 mL	0.7369 mL	1.4739 mL
50 mM	0.0295 mL	0.1474 mL	0.2948 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.

Reference

Zheng X, Yang Z, Gu Q, et al. The protease activity of human ATG4B is regulated by reversible oxidative modification. Autophagy. 2019
Cui XY, et al. Anti-Cancer Effects of Auranofin in Human Lung Cancer Cells by

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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