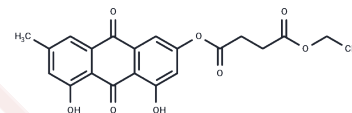


Kanglexin

Chemical Properties

CAS No. :	2228847-12-7
Formula:	C ₂₁ H ₁₈ O ₈
Molecular Weight:	398.36
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	Kanglexin is an orally active novel anthraquinone compound. It inhibits NLRP3 inflammasome activation and pyroptosis, offering cardioprotective benefits. By stimulating the FGFR1/ERK signaling pathway, Kanglexin promotes angiogenesis and accelerates wound healing in diabetes. Additionally, it has lipid-lowering effects and inhibits vascular smooth muscle cell dedifferentiation, making it a potential compound for studying hyperlipidemia, fatty liver, and atherosclerosis.
Targets(IC50)	ERK,FGFR,NOD-like Receptor (NLR),AMPK,Pyroptosis
In vitro	Kanglexin (10-20 μM; 24 hours) inhibits pyroptosis in cardiomyocytes treated with hypoxia or LPS. Additionally, Kanglexin (5-20 μM; 24 hours) reduces lipid levels in oleic acid-treated HepG2 cells via the AMPK/SREBP-2/PCSK9/LDLR signaling pathway.
In vivo	Kanglexin (20-40 mg/kg; gavage; 7 days) demonstrates beneficial effects in a mouse model of myocardial infarction. Additionally, Kanglexin (20-80 mg/kg; oral; 2 weeks) shows improvements in a rat model of hyperlipidemia.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5103 mL	12.5515 mL	25.1029 mL
5 mM	0.5021 mL	2.5103 mL	5.0206 mL
10 mM	0.251 mL	1.2551 mL	2.5103 mL
50 mM	0.0502 mL	0.251 mL	0.5021 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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