

ASK1-IN-12

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	ASK1-IN-12 is an ASK1 inhibitor with an IC50 of 6.3 nM. It effectively suppresses the activation of the ASK1-p38/JNK pathway induced by TNF- α . Additionally, ASK1-IN-12 reduces cholesterol elevation and lipid droplet accumulation induced by free fatty acids, improving hepatic steatosis. This compound is valuable for research on non-alcoholic steatohepatitis (NASH).
Targets(IC50)	JNK,p38 MAPK
In vitro	ASK1-IN-12 (Compound 20) effectively reduces free fatty acid-induced decreases in total cholesterol, triglycerides, low-density lipoprotein cholesterol, and lipid droplet accumulation in LO2 cells at concentrations of 1-6 μ M over 24 hours, thereby improving hepatic steatosis. Additionally, ASK1-IN-12 at concentrations of 1-1000 nM over 24 hours inhibits TNF- α -induced ASK1-p38/JNK pathway activation in HepG2 cells. ASK1-IN-12 at 0.5-5 μ M for 24 hours shows no significant cytotoxicity in LO2 hepatocytes, maintaining cell viability above 80%.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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