

SMU-14a

Chemical Properties

CAS No. :

Formula: C₂₄H₂₀N₄O

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	SMU-14a is a TLR3 inhibitor with an IC ₅₀ of 0.18 μM. It suppresses IL-6 secretion in mouse peritoneal macrophages and downregulates TNF-α in human peripheral blood mononuclear cells. The compound exerts anti-inflammatory effects by reducing the phosphorylation of p65, ERK, and TBK1 via the NF-κB, MAPK, and IRF3 signaling pathways, and by lowering serum levels of alanine aminotransferase (ALT) and aspartate aminotransferase (AST). SMU-14a is applicable in acute hepatitis research.
Targets(IC50)	ERK,NF-κB,IκB/IKK,p38 MAPK,TLR,TNF

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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