K-604, ACAT-1 inhibitor

ALTERNATE NAMES: 2-(4-[(2-{(1H-benzo[d]imidazol-2-ylthio)ethyl)piperazin-1-yl})-N-((6-methyl-2,4-bis(methylthio)pyridin-3-yl)acetamide; 4-[(2-{1H-Benzimidazol-2-ylthio)ethyl})-N-[(6-methyl-2,4-bis(methylthio)3-pyridinyl)-1-piperazineacetamide

CATALOG #: B2926-5 5 mg  B2926-25 25 mg

STRUCTURE:

MOLECULAR FORMULA: C₂₃H₃₀N₆O₃S₃

MOLECULAR WEIGHT: 502.72

CAS NUMBER: 561023-90-3

APPEARANCE: Solid

PURITY: 95%

SOLUBILITY: Soluble in DMSO

DESCRIPTION: K-604 is an inhibitor of acyl-CoA:cholesterol acyltransferase 1 (ACAT1). The IC₅₀ values of K-604 for human ACAT-1 and ACAT-2 are 0.45 μM and 102.85 μM respectively, showing that K-604 is 229-fold more selective for ACAT-1. It suppresses the development of atherosclerosis in an animal model without affecting plasma cholesterol levels. It stimulates collagen production in cultured smooth muscle cells and modulates plaque phenotype in apolipoprotein E-knockout mice.

STORAGE TEMPERATURE: -20ºC Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

RELATED PRODUCTS:
- Naringenin (Cat. No. 1772)
- Terpendole (Cat. No. 2214)
- Penicillide (Cat. No. B1245)
- Avasimibe (Cat. No. 9506)
- Pellitorine (Cat. No. 2053)

DISCLAIMER: FOR RESEARCH USE ONLY! Not to be used on humans.