BLT-1

Cat. No.: HY-116767
CAS No.: 321673-30-7
Molecular Formula: C₁₂H₂₃N₃S
Molecular Weight: 241.4
Target: Others
Pathway: Others
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
BLT-1, a thiosemicarbazone copper chelator, is a selective scavenger receptor B, type 1 (SR-BI) inhibitor. BLT-1 inhibits the transfer of lipids between high-density lipoproteins (HDL) and cells mediated by SR-BI. BLT-1 has pro-inflammatory functions through neutrophil recruitment [1][2][3].

In Vitro
BLT-1 has IC₅₀s of 60 and 110 nM for cellular DiI-HDL and [³H]CE-HDL uptake in ldlA[mSR-BI] cells [1]. BLT-1 (50 µM; 3 hours) does not induce general defects in clathrin-dependent and -independent intracellular membrane trafficking in HeLa, BSC-1 cells [1]. BLT-1 can inhibit SR-BI-dependent selective uptake of [³H]CE from [³H]CE-HDL by mSR-BI-t1-containing liposomes in cells (IC₅₀=0.057 µM) and liposomes (IC₅₀=0.098 µM) [2].

REFERENCES

