

FABP4-IN-3

Chemical Properties

CAS No. :

Formula: C₂₀H₁₆ClNO₂

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	FABP4-IN-3 (Compound C3) is a highly selective inhibitor of FABP4, with an inhibition constant (K _i) of 25 ± 3 nM for FABP4 and a K _i of 15.03 μM for FABP3, showcasing a selectivity factor of 601 times over FABP3. It also demonstrates metabolic stability and potent anti-inflammatory activity in cells, making it a promising candidate for research in metabolic disorders, cardiac dysfunction, and inflammation-related diseases.
Targets(IC50)	FABP
In vitro	FABP4-IN-3 exhibits significant metabolic stability in human and mouse microsomes, with half-lives of 165 minutes and 131 minutes, respectively. At a concentration of 100 μM for 24 hours, FABP4-IN-3 shows no cytotoxic effects on the viability of THP-1 macrophages. Additionally, at concentrations of 5-20 μM for 18 hours, FABP4-IN-3 demonstrates a clear, dose-dependent inhibition of the production of the inflammatory cytokine MCP-1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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