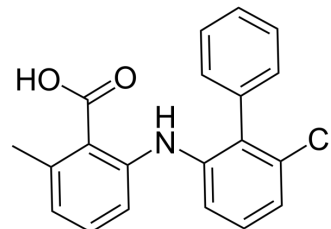


FABP4-IN-3

Cat. No.:	HY-163032
Molecular Formula:	C ₂₀ H ₁₆ ClNO ₂
Molecular Weight:	337.8
Target:	FABP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FABP4-IN-3 (compound C3) is a highly selective FABP4 inhibitor (FABP4 K _i = 25 ± 3 ^a nM, FABP3 K _i = 15.03 μM) which exhibits a 601-fold selectivity over FABP3. FABP4-IN-3 also shows metabolic stability and potent cellular anti-inflammatory activity, making it promising to get involved in the research of metabolic disease, cardiac dysfunction and inflammation-related disease ^[1] .
In Vitro	<p>FABP4-IN-3 demonstrates remarkable metabolic stability in both human and mouse microsomes, T_{1/2} = 165 min and 131 min^[1].</p> <p>FABP4-IN-3 (100μM, 24h) has no cytotoxicity effect on the cell viability of THP-1 macrophages^[1].</p> <p>FABP4-IN-3 (5-20μM, 18h) demonstrates a remarkable suppression of inflammatory cytokine MCP-1 production in a dose-dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Yechun Xu, et al. Structure-based design of potent FABP4 inhibitors with high selectivity against FABP3. European Journal of Medicinal Chemistry. 2023 Journal Pre-proof.

Caution: Product has not been fully validated for medical applications. For research use only.

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