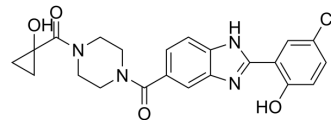


CTL-12

Cat. No.:	HY-149541
Molecular Formula:	C ₂₂ H ₂₁ ClN ₄ O ₄
Molecular Weight:	440.88
Target:	Fatty Acid Synthase (FASN)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CTL-12 is an inhibitor of fatty acid synthase (FASN) (IC ₅₀ : 2.5 μM) and can induce apoptosis. CTL-12 blocks the cell cycle in the Sub-G1/S phase, upregulates the expression of caspase-9 and the apoptosis marker Bax, and downregulates the anti-apoptotic marker Bcl-xL. CTL-12 inhibits de novo lipogenesis, blocks the metabolic demands of tumor cells, and is commonly used in breast and colorectal cancer research ^[1] .
IC ₅₀ & Target	IC ₅₀ : 2.5 μM (FASN) ^[1]

REFERENCES

[1]. Singh S, et al. Design, synthesis, and anticancer activity of some novel 1H-benzo [d] imidazole-5-carboxamide derivatives as fatty acid synthase inhibitors[J]. Bioorganic Chemistry, 2023: 106658. . .

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

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