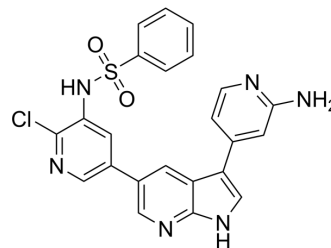


FD2056

Cat. No.:	HY-155180
CAS No.:	2685870-87-3
Molecular Formula:	C ₂₃ H ₁₇ ClN ₆ O ₂ S
Molecular Weight:	476.94
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

FD2056 is a potent and orally active PI3K inhibitor. FD2056 inhibits PI3K α /PI3K β /PI3K γ /PI3K δ with IC₅₀s of 0.30, 0.80, 1.10, 0.42 nM. FD2056 also inhibits CDK2-CyclinA2 and CDK4-CyclinD3 with IC₅₀ of 115.95 and 2782.15 nM. FD2056 inhibits breast cancer cell proliferation with IC₅₀s of 1.06, 0.04, 1.40 μ M for MDA-MB-231, MDA-MB-468, MCF-7 cells. FD2056 also induces cancer apoptosis and inhibits tumor growth^[1].

REFERENCES

[1]. Yang C, et al. Discovery and identification of a novel PI3K inhibitor with enhanced CDK2 inhibition for the treatment of triple negative breast cancer. *Bioorg Chem.* 2023 Aug 9;140:106779.

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

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