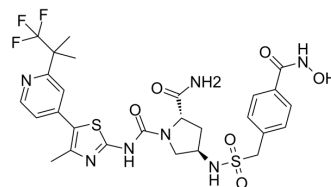


PI3K α /HDAC6-IN-1

Cat. No.:	HY-156091
CAS No.:	3007565-26-3
Molecular Formula:	C ₂₇ H ₃₀ F ₃ N ₇ O ₆ S ₂
Molecular Weight:	669.7
Target:	PI3K; HDAC
Pathway:	PI3K/Akt/mTOR; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3K α /HDAC6-IN-1 (compound 21j) is a dual PI3K α /HDAC6 inhibitor with IC ₅₀ of 2.9 and 26 nM, respectively. PI3K α /HDAC6-IN-1 also inhibits AKT(Ser473) phosphorylation and induces the accumulation of acetylated α -tubulin without affecting acetylated histones H3 and H4. PI3K α /HDAC6-IN-1 efficiently inhibits L-363 cell line (IC ₅₀ =0.17 μ M) and has good anti-cancer activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.9 nM (PI3K α), 26 nM (HDAC6) ^[1]

REFERENCES

[1]. Zhang Y, et al. Discovery of (S)-N1-(thiazol-2-yl) pyrrolidine-1,2-dicarboxamide derivatives targeting PI3K α /HDAC6 for the treatment of cancer. *Bioorg Med Chem Lett*. 2023 Oct 1;94:129462... .

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

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