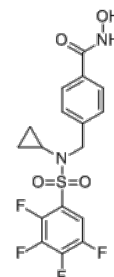


Product Name : KT-531
Cat. No. : PC-72739
CAS No. : 2490284-18-7
Molecular Formula : C₁₇H₁₄F₄N₂O₄S
Molecular Weight : 418.363
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

KT-531 (KT531) is a potent, selective **HDAC6** inhibitor with IC₅₀ of 8.5 nM, displays 39-fold selectivity over other HDAC isoforms.

KT-531 demonstrated biological potency in multiple hematological cancer cell models (acute myeloid leukemia (AML), PTCL, and T-cell acute lymphoblastic leukemia (T-ALL)) and limited cytotoxicity in nonmalignant cell types as well as no observable toxicity in vivo (CD-1 mice).

KT-531 exhibited strong potency (IC₅₀=0.42 μM) in the T-ALL/T-PLL-like cell line SUP-T11, demonstrated higher cytotoxicity than Nexturastat in MV4-11 cancer cells (IC₅₀=0.42 uM versus 1.68 uM).

KT-531 showed high synergy with chemotherapeutic agents idasanutlin, bendamustine, and venetoclax in T-PLL patient samples.

KT-531 is the first HDAC6 inhibitor to show efficacy in T-PLL patient samples.

References

Krimo Toutah, et al. *J Med Chem.* 2021 Jun 24;64(12):8486-8509.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com