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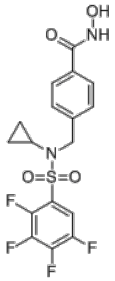
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	KT-531
Cat. No.	:	PC-72739
CAS No.	:	2490284-18-7
Molecular Formula	:	$C_{17}H_{14}F_4N_2O_4S$
Molecular Weight	:	418.363
Target	:	HDAC
Solubility	:	



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.

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