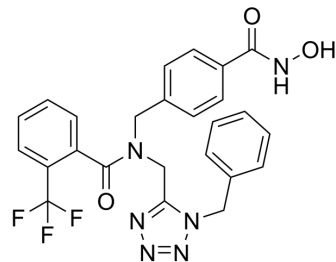


NR160

Cat. No.:	HY-139181
CAS No.:	2484895-50-1
Molecular Formula:	$C_{25}H_{21}F_3N_6O_3$
Molecular Weight:	510.47
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NR160 is a selective HDAC6 inhibitor with an IC ₅₀ value of 30 nM. NR160 shows low cytotoxicity against leukemia cell line. NR160 augments the apoptosis induction of Bortezomib (HY-10227) (proteasome inhibitor), Epirubicin (HY-13624) and Daunorubicin (HY-13062A) significantly ^{[1][2]} .								
IC₅₀ & Target	HDAC6 30 nM (IC ₅₀)								
In Vitro	<p>NR160 (compound 6l) (2.5 μM and 5 μM; 24 h) induces α-tubulin acetylation (ac-α-tubulin)^[1].</p> <p>NR160 (1-50 μM; 24 h) shows low cytotoxicity against leukemia cell lines with IC₅₀s >20 μM^[1].</p> <p>NR160 (2.5 μM, 5 μM; 24 h) enhances the cytotoxicity induction of Bortezomib, Epirubicin and Daunorubicin in HL60 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"><tr><td>Cell Line:</td><td>HL60 cells</td></tr><tr><td>Concentration:</td><td>1-50 μM</td></tr><tr><td>Incubation Time:</td><td>24 hours</td></tr><tr><td>Result:</td><td>Inhibited leukemia cell lines with IC₅₀s of 49.4 μM (TALL-1), 51.8 μM (HSB-2), 42.4 μM (MOLT-4), 32.1 μM (Jurkat), 42.9 μM (HL-60), 22.5 μM (SUP-B15), and 41.6 μM (K562), respectively.</td></tr></table>	Cell Line:	HL60 cells	Concentration:	1-50 μM	Incubation Time:	24 hours	Result:	Inhibited leukemia cell lines with IC ₅₀ s of 49.4 μM (TALL-1), 51.8 μM (HSB-2), 42.4 μM (MOLT-4), 32.1 μM (Jurkat), 42.9 μM (HL-60), 22.5 μM (SUP-B15), and 41.6 μM (K562), respectively.
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REFERENCES

[1]. Reßing N, et al. Multicomponent Synthesis, Binding Mode, and Structure-Activity Relationship of Selective Histone Deacetylase 6 (HDAC6) Inhibitors with Bifurcated Capping Groups. *J Med Chem*. 2020 Sep 24;63(18):10339-10351.

[2]. Najib N N, et al. Correlation between the acoustic and dynamic mechanical properties of natural rubber foam: Effect of foaming temperature[J]. *Materials & Design*, 2011, 32(2): 505-511.

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

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