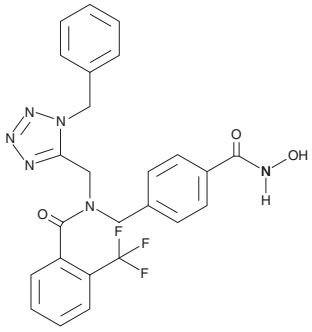
PRODUCT INFORMATION

NR-160

Item No. 31792



CAS Registry No.:	2484895-50-1
Formal Name:	N-[[4-[(hydroxyamino)carbonyl] phenyl]methyl]-N-[[1-(phenylmethyl)-1H-tetrazol-5-yl]methyl]-2-(trifluoromethyl)-benzamide
MF:	$C_{25}H_{21}F_3N_6O_3$
FW:	510.5
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NR-160 is supplied as a crystalline solid. A stock solution may be made by dissolving the NR-160 in the solvent of choice, which should be purged with an inert gas. NR-160 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NR-160 in these solvents is approximately 1, 20, and 30 mg/ml, respectively.

Description

NR-160 is an inhibitor of histone deacetylase 6 (HDAC6; IC_{50} = 0.03 µM).[1] It is selective for HDAC6 over HDAC1, -2, -3, -4, and -8 (IC_{50}s = 5.18, 2.26, 8.48, 55.4, and 14.7 µM, respectively). NR-160 is cytotoxic against a panel of seven cancer cell lines (IC_{50}s = 22.5-51.8 µM). It enhances cytotoxicity induced by bortezomib (Item No. 10008822) in HL-60 cells, as well as cytotoxicity induced by epirubicin (Item No. 12091) or daunorubicin (Item No. 14159) in CCRF-HSB-2 T cell acute lymphoblastic leukemia cells.

Reference

1. Reßing, N., Sönnichsen, M., Osko, J.D., *et al.* Multicomponent synthesis, binding mode, and structure-activity relationship of selective histone deacetylase 6 (HDAC6) inhibitors with bifurcated capping groups. *J. Med. Chem.* **63(18)**, 10339-10351 (2020).

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