

Product Data Sheet

Product Name: NR-160
Cat. No.: GC48460

Chemical Properties

Cas. No. 2484895-50-1

SMILES O=C(NO)C(C=C1)=CC=C1CN(CC2=NN=NN2CC3=CC=CC=C3)C(C4=C(C(F)(F)F)C=CC=C4)=O

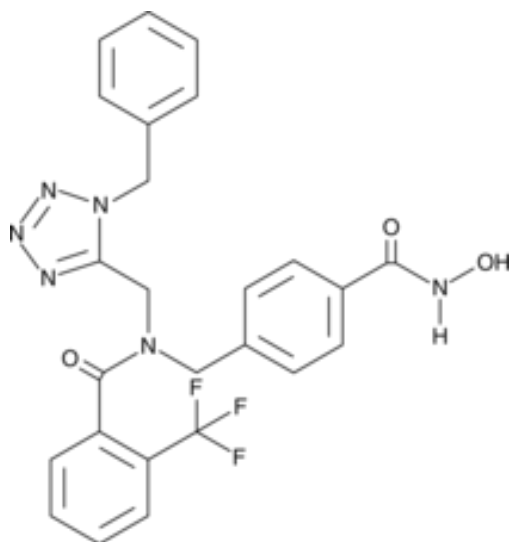
Formula C₂₅H₂₁F₃N₆O₃ M.Wt 510.5

Solubility DMF: 30 mg/ml, DMSO: 20 mg/ml, Ethanol: 1 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

NR-160 is an inhibitor of histone deacetylase 6 (HDAC6; IC₅₀ = 0.03 μM).¹ It is selective for HDAC6 over HDAC1, -2, -3, -4, and -8 (IC₅₀s = 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 (IC₅₀s = 22.5-51.8 μM). It enhances cytotoxicity

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

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induced by bortezomib in HL-60 cells, as well as cytotoxicity induced by epirubicin or daunorubicin in CCRF-HSB-2 T cell acute lymphoblastic leukemia cells.

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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