Catalog # 10-2157

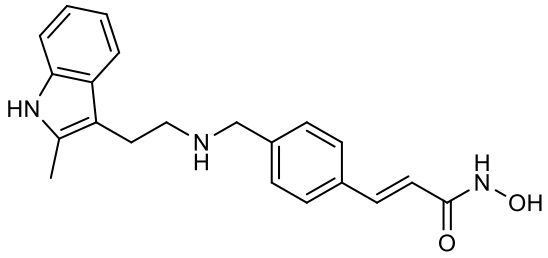
Panobinostat

404950-80-7

LBH-589

(E)-N-Hydroxy-3-(4-((2-(2-methyl-1H-indol-3-yl)ethylamino)methyl)phenyl)acrylamide

Lot # X106141



A potent inhibitor of class I and II HDACs[1]. Cotreatment with panobinostat and an HSP90 inhibitor caused synergistic apoptosis in human CML-BC and AML cells[2]. A potent antimyeloma agent that overcomes drug resistance[3].

1) Geng *et al*. (2006), *Histone deacetylase (HDAC) inhibitor LBH589 increases duration of gamma H2AX foci and confines HDAC4 to the cytoplasm in irradiated non-small cell lung cancer*; Cancer Res., **66** 11298
2) George *et al*. (2005), *Combination of the histone deacetylase inhibitor LBH589 and the hsp90 inhibitor 17-AAG is highly active against human CML-BC cells and AML cells with activating mutation of FLT-3*; Blood, **105** 1768
3) Maiso *et al*. (2006), *The histone deacetylase inhibitor LBH589 is a potent antimyeloma agent that overcomes drug resistance*; Cancer Res., **66** 5781

PHYSICAL DATA

Molecular Weight:	349.44
Molecular Formula:	$C_{21}H_{23}N_3O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml), Ethanol (up to 5 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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