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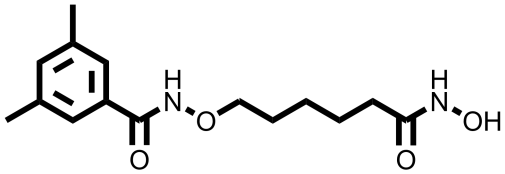
HDAC4 and HDAC5 Inhibitor – LMK235

Chemical Name: N-((6-(hydroxyamino)-6-oxohexyl)oxy)-3,5-dimethylbenzamide



Molecular Weight:	294.35
Formula:	$C_{15}H_{22}N_2O_4$
Purity:	≥98%
CAS#:	1418033-25-6
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 month -20 °C 1 year

Biological Activity:

LMK235 is a potent and selective histone deacetylase HDAC4 and HDAC5 inhibitor (IC_{50} ~11.9 nM and 4.22 nM respectively). It also has inhibitory activities against HDAC 6, 1, 11, 2, and 8 with IC_{50} for 55.7, 320, 852, 881, and 1278 nM, respectively. LMK235 exhibits cytotoxity against chemo-resistant cancer cell lines in human ovarian cancer cell lines A2780 and cisplatin resistant A2780CisR (IC_{50} ~0.49 and 0.32 μM respectively).

How to Use:

In vitro: LMK235 was used at 1 μM final concentration in vitro and in cellular assays.

In vivo: n/a

Reference:

1. Marek L, et al. Histone deacetylase (HDAC) inhibitors with a novel connecting unit linker region reveal a selectivity profile for HDAC4 and HDAC5 with improved activity against chemoresistant cancer cells. (2013) J Med Chem. 56(2):427-36.