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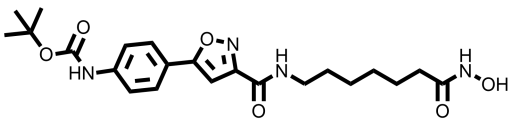
HDAC6 Inhibitor –CAY10603

Chemical Name: tert-butyl (4-(3-((7-(hydroxyamino)-7-oxoheptyl)carbamoyl)isoxazol-5-yl)phenyl)carbamate



Molecular Weight:	446.50
Formula:	$C_{22}H_{30}N_4O_6$
Purity:	≥98%
CAS#:	1045792-66-2
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

CAY10603 is a potent and selective HDAC6 inhibitor with IC_{50} of 2 pM. It has 271 nM, 252 nM, 0.42 nM, 6851 nM, and 90.7 nM for HDAC1, 2, 3, 8, and 10, respectively. CAY10603 has potent antiproliferative activity against pancreatic cancer cell lines with IC_{50} of <1 μM. It could be useful chemical probe to study HDAC biology.

How to Use:

In vitro: CAY10603 was used at 0.1-1 μM final concentration in various in vitro assays.

In vivo: n/a

Reference:

1. Kozikowski AP, et al. Use of the nitrile oxide cycloaddition (NOC) reaction for molecular probe generation: a new class of enzyme selective histone deacetylase inhibitors (HDACIs) showing picomolar activity at HDAC6. (2008) J Med Chem. 51(15):4370-3.