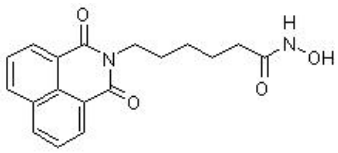
abcam

Product datasheet

Scriptaid, HDAC inhibitor ab120883

2 Images

Overview

Product name	Scriptaid, HDAC inhibitor
Description	HDAC inhibitor
Biological description	Novel HDAC inhibitor, able to cause >100-fold increase in histone deacetylation. Less toxic than trichostatin A (**ab120850**). Induces cell cycle arrest *in vitro* and *in vivo.*
Purity	> 98%
CAS Number	287383-59-9
Chemical structure	

Properties

Chemical name	*N*-Hydroxy-1,3-dioxo-1*H*-benz[de]isoquinoline-2(3*H*)-hexanamide
Molecular weight	326.35
Molecular formula	$C_{18}H_{18}N_2O_4$
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 5 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	O=C(C1=CC=CC2=C1C3=CC=C2)N(CCCCCC(NO)=O)C3=O
Source	Synthetic

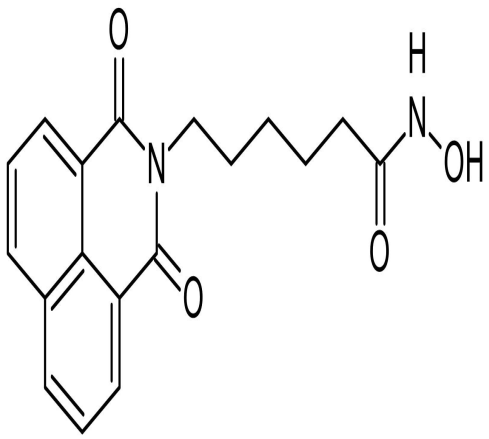
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120883 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

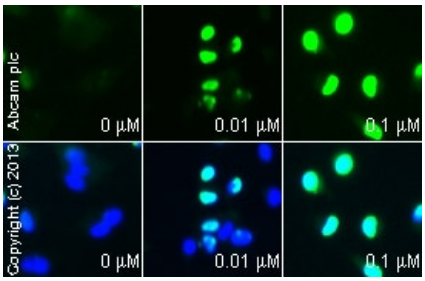
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Scriptaid, HDAC inhibitor (ab120883)

2D chemical structure image of ab120883, Scriptaid, HDAC inhibitor



Immunocytochemistry/ Immunofluorescence - Scriptaid, HDAC inhibitor (ab120883)

ab10812 staining histone H3 (acetyl K9) in A549 cells treated with scriptaid (ab120883), by ICC/IF. Increase in histone H3 (acetyl K9) expression correlates with increased concentration of scriptaid, as described in literature.

The cells were incubated at 37°C for 24 hour in media containing different concentrations of ab120883 (scriptaid) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab10812** (0.1 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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