abcam

Product datasheet

Sodium 4-phenylbutyrate, Histone deacetylase inhibitor ab141253

2 References 画像数 3

製品の概要

製品名	Sodium 4-phenylbutyrate, Histone deacetylase inhibitor
製品の詳細	Histone deacetylase inhibitor
生理活性の詳細	Histone deacetylase (HDAC) inhibitor. Able to induce apoptosis, differentiation and promote the maturation of a variety of malignant cells. Inhibits glioma cell proliferation.
精製度	> 99%
CAS 番号	1716-12-7
構造式	

製品の特性

体系名	4-Phenylbutyric acid sodium salt
分子量	186.18
分子式	$C_{10}H_{11}NaO_2$
PubChem 登録番号	5258
保存方法	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in water to 100 mM and in DMSO to 25 mM
使用に関する注意	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. Refer to SDS for further information Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES 線形表記	O=C(CCCc1ccccc1)O[Na]
由来	Synthetic

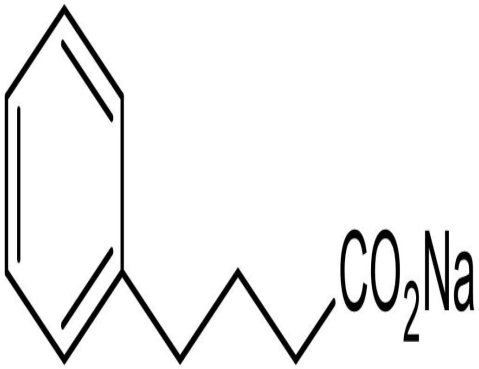
アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab141253の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

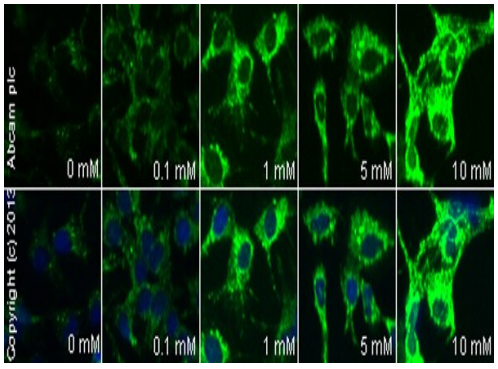
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



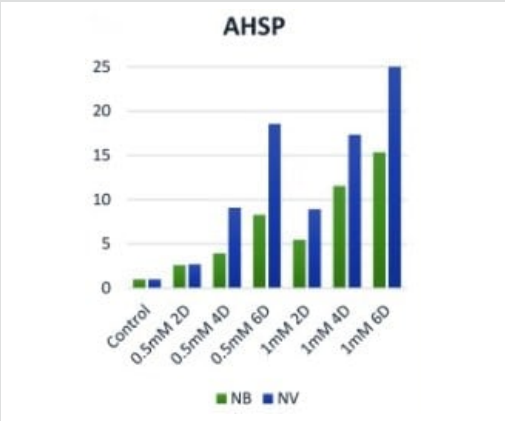
Chemical Structure - Sodium 4-phenylbutyrate, Histone deacetylase inhibitor (ab141253)

2D chemical structure image of ab141253, Sodium 4-phenylbutyrate, Histone deacetylase inhibitor



Immunocytochemistry/ Immunofluorescence - Sodium 4-phenylbutyrate, Histone deacetylase inhibitor (ab141253)

ab70362 staining adiponectin receptor 1 in HepG2 cells treated with sodium 4-phenylbutyrate (ab141253), by ICC/IF. Increase of adiponectin receptor 1 expression correlates with increased concentration of sodium 4-phenylbutyrate, as described in literature. The cells were incubated at 37°C for 6 hours in media containing different concentrations of ab141253 (sodium 4-phenylbutyrate) 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 **ab70362** (5 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.



Cellular activation - Sodium 4-phenylbutyrate, Histone deacetylase inhibitor (ab141253)

Image from Okhovat MA, et al. Plos One, 13(2), e0189267. Fig 1g,; doi: 10.1371/journal.pone.0189267

The effect of sodium phenylbutyrate (NB) and sodium valproate (NV) on the expression of AHSP in K562 cells. 2D, two days of treatment; 4D, four days of treatment; 6D, six days of treatment.

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