

Product datasheet

Valproic acid, sodium salt, Histone deacetylase inhibitor ab120745

[1 References](#) [2 Images](#)

Overview

Product name	Valproic acid, sodium salt, Histone deacetylase inhibitor
Description	Histone deacetylase inhibitor
Biological description	Histone deacetylase inhibitor ($IC_{50} = 0.4 \mu M$ for HDAC1). Increases GABA expression and activates Wnt dependent gene expression. Centrally active upon oral and intravenous administration.

CAS Number 1069-66-5



Properties

Chemical name	Sodium 2-propylpentanoate
Molecular weight	166.20
Molecular formula	$C_8H_{15}NaO_2$
Storage instructions	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM
Handling	<p>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 $-20^{\circ}C$. 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.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
Source	Synthetic

Applications

Applications

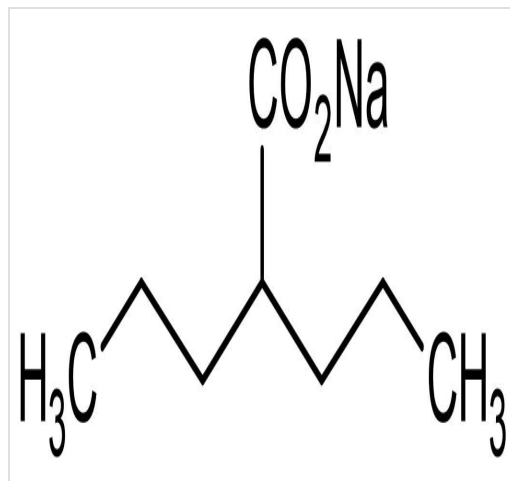
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120745 in the following tested applications.

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

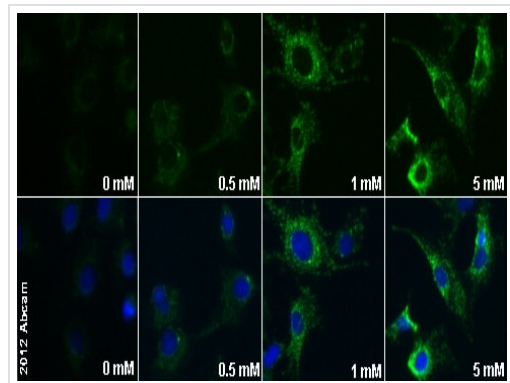
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Valproic acid, sodium salt,
Histone deacetylase inhibitor (ab120745)

2D chemical structure image of ab120745, Valproic acid, sodium salt, Histone deacetylase inhibitor



Immunocytochemistry/ Immunofluorescence -
Valproic acid, sodium salt, Histone deacetylase
inhibitor (ab120745)

ab70362 staining adiponectin receptor 1 in HepG2 cells treated with valproic acid, sodium salt (ab120745), by ICC/IF. Increased cytoplasmatic staining of adiponectin receptor 1 correlates with increased concentration of valproic acid, as described in literature. The cells were incubated at 37°C for 24h in media containing different concentrations of ab120745 (valproic acid) 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 goat 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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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