



Datasheet for ABIN7233276

## Phenylbutyrate Na



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### 1 Image

#### Overview

Quantity: 1 g

Application: Inhibition (Inh)

#### Product Details

Purpose: HDAC inhibitor

Characteristics: Chemical chaperone for misfolded proteins. Resolves ER stress in neuronal cells by aiding protein folding in the ER. Counteracts impaired glucose homeostasis in a mouse model of type 2 diabetes by preventing islet amyloid formation. Attenuates atherosclerotic progression and stabilizes existing plaques in mouse model of atherosclerosis via inhibition of ER stress. Protects against amyloid  $\beta$ -induced neurotoxicity in a mouse model. Weak histone deacetylase (HDAC) inhibitor which inhibits glioma cell proliferation. Active in vivo.

Purity: >98 %

Chemical Name: 4-Phenylbutyric acid, sodium salt

Formula: C<sub>10</sub>H<sub>11</sub>O<sub>2</sub> · Na

Solubility: Soluble in DMSO (up to 4 mg/ml) or in Water (up to 25 mg/ml).

#### Target Details

Background: 4-PB, PBNa, Proliferation, Epigenetics, Posttranslational modification, Cell migration, Protein deacetylase, ER/Golgi, Cellular stress, Cell death, Stem cells, Atherosclerosis, Diabetes, Apoptosis inducer, Neurodegeneration, Chromatin

Molecular Weight: 186.2

CAS-No: 1716-12-7

## Application Details

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Restrictions: For Research Use only

## Handling

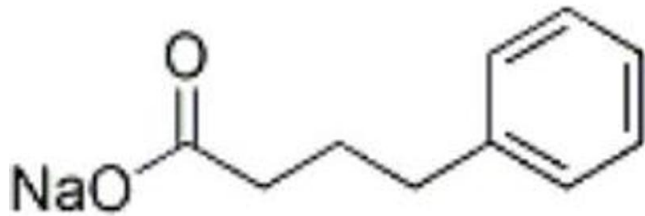
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Format: Powder

Storage: RT

## Images

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### Molecule

Image 1. /