



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Phenylbutyrate Na

HDAC inhibitor  
Catalog No. SIH-255



Discovery through partnership | Excellence through quality

## Overview

---

### Product Name

Phenylbutyrate Na

### Description

HDAC inhibitor

### Purity

>98%

### CAS No.

1716-12-7

### Molecular Formula

C<sub>11</sub>H<sub>11</sub>NaO<sub>2</sub>

### Molecular Weight

186.18

## Properties

---

### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inducer

### Solubility

Soluble to 1100 mM in water and 100 mM in DMSO

### Source

Synthetic

### Appearance

White solid

### SMILES

C1=CC=C(C=C1)CCCC(=O)[O-].[Na+]

### InChI

InChI=1S/C10H12O2.Na/c11-10(12)8-4-7-9-5-2-1-3-6-9;/h1-3,5-6H,4,7-8H2,(H,11,12);/q;+1/p-1

---

## InChIKey

VPZRWNZGLKXFOE-UHFFFAOYSA-M

---

## Safety Phrases

Classification: Harmful. May be harmful if inhaled, swallowed or absorbed through skin.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

---

## Cite This Product

Phenylbutyrate Na (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-255)

---

## Biological Description

---

### Alternative Names

Sodium 4-phenylbutanoate, 4-PB

---

### Research Areas

Cancer, Apoptosis, Cancer Growth Inhibitors, HDAC Inhibitors

---

### PubChem ID

5258

---

### Scientific Background

Sodium phenylbutyrate is metabolized in the human body by beta-oxidation to phenylacetate, which is then conjugated with glutamine to phenylacetylglutamine, which is eliminated with urine (1). It inhibits cell proliferation, invasion and migration and induces apoptosis in glioma cells. It also inhibits protein isoprenylation, depletes plasma glutamine, increases production of fetal hemoglobin through transcriptional activation of gamma-globin gene (2).

---

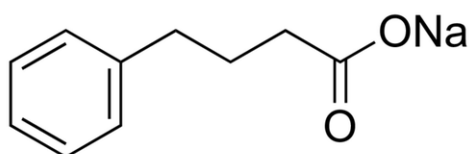
### References

1. Batashaw M.L., MacArthur R.B., and Tuchman M. (2001) J Pediatr. 138: S46-54.
  2. Melichar B., et al. (1998) Clin Cancer Res. 4:3069-3076.
- 

## Product Images

---

Chemical structure of Phenylbutyrate Na (SIH-255), a Histone deacetylase inhibitor.  
CAS #: 1716-12-7. Molecular Formula: C<sub>10</sub>H<sub>11</sub>NaO<sub>2</sub>. Molecular Weight: 186.18 g/mol.



## Product Citations (0)

---

Currently there are no citations for this product.

## **Reviews**

---

There are no reviews yet.