



# 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

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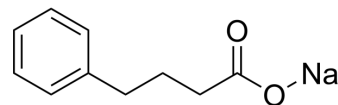
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## Sodium 4-phenylbutyrate (Standard)

<b>Cat. No.:</b>	HY-15654R
<b>CAS No.:</b>	1716-12-7
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>11</sub> NaO <sub>2</sub>
<b>Molecular Weight:</b>	186.18
<b>Target:</b>	Apoptosis; Autophagy; HDAC
<b>Pathway:</b>	Apoptosis; Autophagy; Cell Cycle/DNA Damage; Epigenetics
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sodium 4-phenylbutyrate (Standard) is the analytical standard of Sodium 4-phenylbutyrate. This product is intended for research and analytical applications. Sodium 4-phenylbutyrate (4-PBA sodium) is an inhibitor of HDAC and endoplasmic reticulum (ER) stress, used in cancer and infection research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	HDAC <sup>[1]</sup> , ER <sup>[3]</sup>

### REFERENCES

- [1]. Chang TH, et al. Enhanced growth inhibition by combination differentiation therapy with ligands of peroxisome proliferator-activated receptor-gamma and inhibitors of histone deacetylase in adenocarcinoma of the lung. *Clin Cancer Res.* 2002 Apr;8(4):1206-12.
- [2]. Frouco G, et, al. Sodium phenylbutyrate abrogates African swine fever virus replication by disrupting the virus-induced hypoacetylation status of histone H3K9/K14. *Virus Res.* 2017 Oct 15;242:24-29.
- [3]. Park HJ, et al. 4-Phenylbutyric acid protects against lipopolysaccharide-induced bone loss by modulating autophagy in osteoclasts. *Biochem Pharmacol.* 2018 May;151:9-17.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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