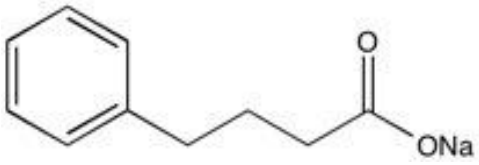
Tribioscience

Phenylbutyrate Na, HDAC inhibitor

Catalog	Unit
TBI1118-1G	1 g
TBI1118-5G	5 g

Product Details



Formal Name: 4-Phenylbutyric acid, sodium salt
Alternate Names: 4-PB; PBNa
Molecular Formula: 186.2
Formula Weight: $C_{10}H_{11}O_2 \cdot Na$
CAS Number: 1716-12-7
Purity: ≥98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 4 mg/ml) or in Water (up to 25 mg/ml).
Storage: RT
Stability: ≥ 2 years.

Applications

HDAC inhibitor

Functions

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 β-induced neurotoxicity in a mouse model. Weak histone deacetylase (HDAC) inhibitor which inhibits glioma cell proliferation. Active *in vivo*.

Application Procedures

First dissolved in DMSO (up to 4 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.