

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: C₁₀H₁₁NaO₂

CAS Number: 1716-12-7

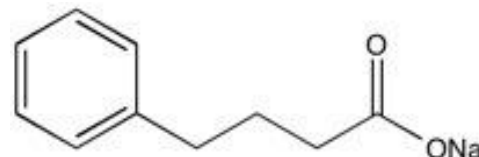
Purity: ≥98%

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 proteins¹. 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 2 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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