Product Name: Sodium phenylbutyrate

CAS No.: 1716-12-7
Cat. No.: HY-15654
MWt: 186.18
Formula: C10H11NaO2
Purity: >98%

Solubility: Water 20 mg/ml

Mechanisms:
Pathways: Cell Cycle/DNA Damage; Target: HDAC

Biological Activity:
Sodium 4-phenylbutyrate (TriButyrate), a Histone deacetylase inhibitor, is terminal aromatic substituted fatty acid that has been used for the treatment of urea cycle disorders.

IC50 Value: 1-5 uM [1]
Target: HDAC
in vitro: In comparison, the carboxylate histone deacetylase inhibitors sodium valproate, sodium butyrate, and 4-phenylbutyrate were less potent (IC50 range 1-5 uM) [1]. Treatment with sodium 4-phenylbutyrate, but not with glycerol or dimethylsulfoxide, reduced the amount of detergent-insoluble myocilin aggregates, diminished myocilin interaction with calreticulin, and restored the secretion of mutant myocilin. Sodium 4-phenylbutyrate treatment of cells coexpressing mutant and wild-type myocilin relieved ER stress and significantly reduced the rate of apoptosis. Treatment with 4-PB resulted in the significant in vitro and in vivo growth inhibition of pancrea...

References:

Caution: Not fully tested. For research purposes only

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