Datasheet

Product overview

Name: Valproic acid sodium salt
Cat No: HB0867
Biological description: Histone deacetylase inhibitor (IC_{50} = 400 µM at HDAC1). Shows multitude of biological actions. Can be used to produce pluripotent stem cells (iPS cells) with only Oct4 and Sox2 factors required in addition. Activates Wnt-dependent gene expression and shows anti-inflammatory, anti-cancer anti-epileptic and neuroprotective actions. Blood-brain barrier permeable.
Alternative names: VPA
Biological action: Inhibitor

Properties

Chemical name: Sodium 2-propylpentanoate
Molecular Weight: 166.19
Chemical structure:

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     CO2Na
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Molecular Formula: C_{8}H_{15}NaO_{2}
CAS Number: 1069-66-5

Storing and Using Your Product

Storage instructions: room temperature (desiccate)
Solubility overview: soluble in water (100mM) or DMSO (50mM)
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for Valproic acid sodium salt

Histone deacetylase is a direct target of valproic acid, a potent anticonvulsant, mood stabilizer, and teratogen.
PubMedID: 11473107
Valproic acid inhibits Abeta production, neuritic plaque formation, and behavioral deficits in Alzheimer’s disease mouse models.
PubMedID: 18955571

Potentiation of anticancer effect of valproic acid, an antiepileptic agent with histone deacetylase inhibitory activity, by the cyclin-dependent kinase inhibitor P276-00 in human non-small-cell lung cancer cell lines.
PubMedID: 24051085

Induction of pluripotent stem cells from primary human fibroblasts with only Oct4 and Sox2.
PubMedID: 18849973