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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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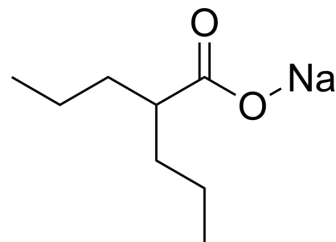
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Valproic acid sodium (Standard)

Cat. No.:	HY-10585AR
CAS No.:	1069-66-5
Molecular Formula:	C ₈ H ₁₅ NaO ₂
Molecular Weight:	166.19
Target:	Mitophagy; Endogenous Metabolite; Autophagy; Organoid; Apoptosis; HDAC; HIV; Notch
Pathway:	Autophagy; Metabolic Enzyme/Protease; Stem Cell/Wnt; Apoptosis; Cell Cycle/DNA Damage; Epigenetics; Anti-infection; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Valproic acid (sodium) (Standard) is the analytical standard of Valproic acid (sodium). This product is intended for research and analytical applications. Valproic acid (Sodium Valproate) sodium is an orally active HDAC inhibitor, with IC ₅₀ in the range of 0.5 and 2 mM, also inhibits HDAC1 (IC ₅₀ , 400 μM), and induces proteasomal degradation of HDAC2. Valproic acid sodium activates Notch1 signaling and inhibits proliferation in small cell lung cancer (SCLC) cells. Valproic acid sodium is used in the treatment of epilepsy, bipolar disorder, metabolic disease, HIV infection and prevention of migraine headaches [1][2][3][4][5][6][7].
IC₅₀ & Target	IC ₅₀ : 400 μM (HDAC1), 0.5-2 mM (HDAC) ^[5] HDAC2 ^[6]

REFERENCES

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- [2]. Zhang ZH, et al. Valproic acid inhibits tumor angiogenesis in mice transplanted with Kasumi 1 leukemia cells. *Mol Med Rep.* 2013 Nov 28.
- [3]. Cohen OS, et al. Acute prenatal exposure to a moderate dose of valproic acid increases social behavior and alters gene expression in rats. *Int J Dev Neurosci.* 2013 Dec;31(8):740-50.
- [4]. Avery LB, et al. Valproic Acid Is a Novel Activator of AMP-Activated Protein Kinase and Decreases Liver Mass, Hepatic Fat Accumulation, and Serum Glucose in Obese Mice. *Mol Pharmacol.* 2014 Jan;85(1):1-10.
- [5]. Valproic acid, et al. Histone deacetylase is a direct target of valproic acid, a potent anticonvulsant, mood stabilizer, and teratogen. *J Biol Chem.* 2001 Sep 28;276(39):36734-41.
- [6]. Platta CS, et al. Valproic acid induces Notch1 signaling in small cell lung cancer cells. *J Surg Res.* 2008 Jul;148(1):31-7.
- [7]. Routy JP, et al. Valproic acid in association with highly active antiretroviral therapy for reducing systemic HIV-1 reservoirs: results from a multicentre randomized clinical study. *HIV Med.* 2012 May;13(5):291-6.

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

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