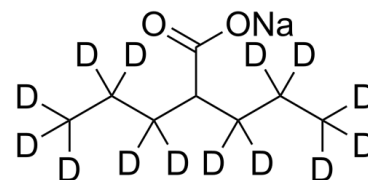


Data Sheet

Product Name:	Valproic acid-d ₁₄ (sodium)
Cat. No.:	CS-0378622
Molecular Formula:	C ₈ HD ₁₄ NaO ₂
Molecular Weight:	180.28
Target:	Autophagy; Endogenous Metabolite; HDAC; HIV; Isotope-Labeled Compounds; Mitophagy; Notch
Pathway:	Anti-infection; Autophagy; Cell Cycle/DNA Damage; Epigenetics; Metabolic Enzyme/Protease; Neuronal Signaling; Others; Stem Cell/Wnt
Solubility:	10 mM in DMSO



References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. 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.
- [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]. Han BR, et al. Valproic acid inhibits the growth of HeLa cervical cancer cells via caspase-dependent apoptosis. *Oncol Rep.* 2013 Dec;30(6):2999-3005.
- [5]. Platta CS, et al. Valproic acid induces Notch1 signaling in small cell lung cancer cells. *J Surg Res.* 2008 Jul;148(1):31-7.
- [6]. 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.
- [7]. Zhang ZH, et al. Valproic acid inhibits tumor angiogenesis in mice transplanted with Kasumi 1 leukemia cells. *Mol Med Rep.* 2013 Nov 28.

CAIndexNames:

Pentanoic acid, 2-propyl-d₁₄, sodium salt (1:1)

SMILES:

[2H]C([2H])([2H])C([2H])([2H])C([2H])([2H])C(C(O[Na])=O)C([2H])([2H])C([2H])([2H])C([2H])([2H])[2H]

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

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