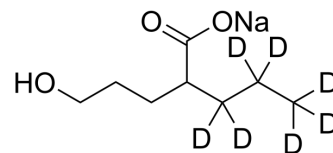


Valproic acid-d₇ sodium

Cat. No.:	HY-10585AS
CAS No.:	1189994-89-5
Molecular Formula:	C ₈ H ₈ D ₇ NaO ₃
Molecular Weight:	189.24
Target:	Notch; Autophagy; HDAC; HIV; Mitophagy; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Neuronal Signaling; Stem Cell/Wnt; Autophagy; Cell Cycle/DNA Damage; Epigenetics; Anti-infection; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Valproic acid-d₇ (sodium) is the deuterium labeled Valproic acid (sodium salt). Valproic acid sodium salt (Sodium Valproate) is an HDAC inhibitor, with IC₅₀ in the range of 0.5 and 2 mM, also inhibits HDAC1 (IC₅₀, 400 μM), and induces proteasomal degradation of HDAC2. Valproic acid sodium salt activates Notch1 signaling and inhibits proliferation in small cell lung cancer (SCLC) cells. Valproic acid sodium salt is used in the treatment of epilepsy, bipolar disorder and prevention of migraine headaches[1][2].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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