



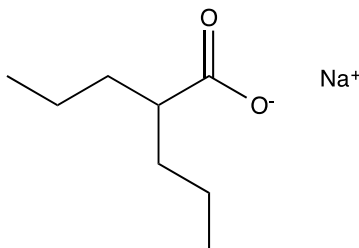
Catalog # 10-1009

Sodium Valproate

CAS# 1069-66-5

2-Propylpentanoic acid Na; VPA

Lot # X102042



Histone deacetylase inhibitor (IC₅₀ = 400μM).¹ Demonstrates neuroprotective, anticancer, and anti-inflammatory activity.² Inhibits Aβ production, reduced neuritic plaque formation, and improved memory deficits in Alzheimer's mouse models.³ Improves stem cell reprogramming efficiency and enables efficient induction of pluripotency without introduction of the oncogene c-Myc.⁴ Clinically useful anticonvulsant.

- 1) Phiel *et al.* (2001), *Histone deacetylase is a direct target of valproic acid, a potent anticonvulsant, mood stabilizer, and teratogen*; J. Biol. Chem. **276** 36734
- 2) Kim *et al.* (2007), *Histone deacetylase inhibitors exhibit anti-inflammatory and neuroprotective effects in a rat permanent ischemic model of stroke: multiple mechanisms of action*; J. Pharmacol. Exp. Ther. **321** 892
- 3) Qing *et al.* (2008), *Valproic acid inhibits Abeta production, neuritic plaque formation, and behavioral deficits in Alzheimer's mouse models*; J. Exp. Med. **205** 2781
- 4) Hangfu *et al.* (2008), *Induction of pluripotent stem cells by defined factors is greatly improved by small molecule compounds*; Nat. Biotechnol. **26** 795

PHYSICAL DATA

Molecular Weight:	166.20
Molecular Formula:	C ₈ H ₁₅ O ₂ ·Na
Purity:	>98% by TLC
	NMR (Conforms)
Solubility:	Water (50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.