

DATA SHEET

Product Name: Sodium Valproate

Catalog #: CV-1001

Alt: CAS # 1069-66-5; 2-Propylpentanoic acid Na; VPA

Molecular Mass: 166.2

Analysis: >98% (TLC); NMR (conforms)

Supplied As: White powder

Resuspension: May be dissolved in water (50 mg/ml)

Storage: Store desiccated as supplied at 4°C for up to 2 years. Store solutions at -20°C for up to 3 months.

Description:

Histone deacetylase inhibitor (IC₅₀=400 μM)¹. Demonstrates neuroprotective, anticancer and anti-inflammatory activity². Inhibits Aβ production, reduced neuritic plaque formation and improved memory deficits in Alzheimer's mouse models³. Improves stem cell reprogramming efficiency and enables efficient induction of pluripotency without introduction of the oncogene c-Myc⁴. Clinically useful anticonvulsant.

References:

1. Piel, C.J., et al., (2001) J. Biol. Chem., 276 : 36734
2. Kim, H.J., et al., (2007) J. Pharmacol. Exp. Ther., 321: 892
3. Qing, H., et al., (2008) J. Exp. Med., 205 : 2781
4. Huangfu, D., et al., (2008) Nature Biotechnol., 26 : 795

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