



**Catalog # 10-1160**

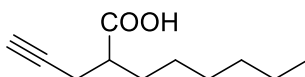
**Hexyl-4-pentynoic acid**

CAS# 96017-59-3

2-(2-Propynyl)octanoic acid (racemic)

HPA

Lot # Z104461



Histone deacetylase (HDAC) inhibitor,  $IC_{50}=13 \mu M^1$ . More potent and robust than valproic acid at inducing histone hyperacetylation (600% at 50  $\mu M$ ), HSP70 induction and protection against glutamate excitotoxicity in cultured neurons<sup>2</sup>. Cell permeable.

- 1) Eikel *et al.* (2006), *Teratogenic effects mediated by inhibition of histone deacetylases: evidence from quantitative structure activity relationships of 20 valproic acid derivatives*; Chem. Res. Toxicol., **19** 272
- 2) Leng *et al.* (2010), *Potent neuroprotective effects of novel structural derivatives of valproic acid: potential roles of HDAC inhibition and HSP70 induction*; Neurosci. Lett., **476** 127

**PHYSICAL DATA**

Molecular Weight: 182.27  
Molecular Formula:  $C_{11}H_{18}O_2$   
Purity: 97% by TLC  
NMR: (Conforms)  
Solubility: DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml)  
Physical Description: Colorless oil  
Storage and Stability: Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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