2-Hexyl-4-Pentynoic Acid

**ALTERNATE NAMES:** 2-prop-2-ynloctanoic acid; 2-propargyloctanoic Acid

**CATALOG #:**
- B2834-100 100 mg
- B2834-500 500 mg

**STRUCTURE:**

![Structure of 2-Hexyl-4-Pentynoic Acid]

**MOLECULAR FORMULA:** C₁₁H₁₈O₂

**MOLECULAR WEIGHT:** 182.26

**CAS NUMBER:** 96017-59-3

**APPEARANCE:** Oil

**PURITY:** ≥95%

**SOLUBILITY:**
- ~20 mg/ml in DMSO
- ~16 mg/ml in DMF
- ~33 mg/ml in Ethanol
- ~2 mg/ml in PBS, pH 7.2

**DESCRIPTION:**
2-Hexyl-4-Pentynoic Acid is an inhibitor of histone deacetylases (HDACs). It is a derivative of Valproic acid. It inhibits HDAC activity with an IC₅₀ of 13 μM, compared to an IC₅₀ of 398 μM for Valproic acid. It induces histone hyperacetylation at a concentration of 5 μM in cerebellar granule cells and increases HSP70-1a and HSP70-1b mRNA levels at 50 μM. It is neuroprotective against glutamate-induced excitotoxicity.

**STORAGE TEMPERATURE:** -20°C

**HANDLING:**
Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCE:**

**RELATED PRODUCTS:**
- KD 5170 (Cat. No. B2820)
- Givinostat hydrochloride (Cat. No. B2081)
- DiscoveryPak™ HDAC Inhibitor Set (Cat. No. K851)
- 4-ido-SAHA (Cat. No. B2800)
- (±)-β-Hydroxybutyrate (Cat. No. B2829)

**DISCLAIMER:**
FOR RESEARCH USE ONLY! Not to be used on humans.