2-Hexyl-4-Pentynoic Acid

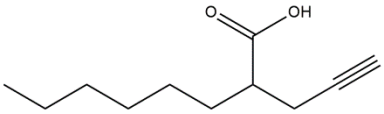
07/19

ALTERNATE NAMES: 2-prop-2-ynyloctanoic acid; 2-propargyloctanoic Acid

CATALOG #:

B2834-100	100 mg
B2834-500	500 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{11}H_{18}O_2$

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 IC_{50} of 13 µM, compared to an IC_{50} 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: -20ºC

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

REFERENCE:
Leng, Y., Marinova, Z., Reis-Fernandes, M.A., et al. Potent neuroprotective effects of novel structural derivatives of valproic acid: Potential roles of HDAC inhibition and HSP70 induction. Neuroscience Letters 476(3), 127-132 (2010)

RELATED PRODUCTS:

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

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