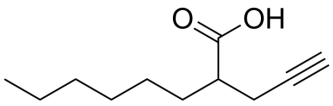
2-Hexyl-4-pentynoic acid

Cat. No.:	HY-118783
CAS No.:	96017-59-3
Molecular Formula:	$C_{11}H_{18}O_2$
Molecular Weight:	182.26
Target:	HDAC; HSP
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Hexyl-4-pentynoic acid ((±)-2-Hexyl-4-pentynoic acid), valproic acid (VPA) derivative, exhibits potential roles of HDAC inhibition (IC_{50}=13 μM) and HSP70 induction. Potent neuroprotective effects. 2-Hexyl-4-pentynoic acid causes histone hyperacetylation and protect against glutamate-induced excitotoxicity in cultured neurons[1]. 2-Hexyl-4-pentynoic acid is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

REFERENCES

[1]. Yan Leng, et al. Potent neuroprotective effects of novel structural derivatives of valproic acid: potential roles of HDAC inhibition and HSP70 induction. Neurosci Lett. 2010 Jun 7;476(3):127-32.

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