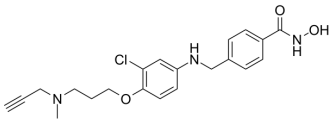
MAO A/HDAC-IN-1

Cat. No.:	HY-142706
CAS No.:	3031466-56-2
Molecular Formula:	$C_{21}H_{24}ClN_3O_3$
Molecular Weight:	401.89
Target:	Monoamine Oxidase; HDAC
Pathway:	Neuronal Signaling; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MAO A/HDAC-IN-1 is a dual?inhibitor?of monoamine oxidase A (MAO A) and HDAC. MAO A/HDAC-IN-1 can be used for glioma research[1]. MAO A/HDAC-IN-1 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
IC_{50} & Target	MAO-A
In Vitro	MAO A/HDAC-IN-1 (compound 15) increases histone H3 and α-tubulin acetylation and induce cell death via nonapoptotic mechanisms[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MAO A/HDAC-IN-1 (compound 15) reduces tumor size, reduced MAO A activity in brain and tumor tissues, and prolonged the survival[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Samir Mehndiratta, et al. N-Methylpropargylamine-Conjugated Hydroxamic Acids as Dual Inhibitors of Monoamine Oxidase A and Histone Deacetylase for Glioma Treatment. J Med Chem. 2022 Feb 10;65(3):2208-2224.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA