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Zuschläge

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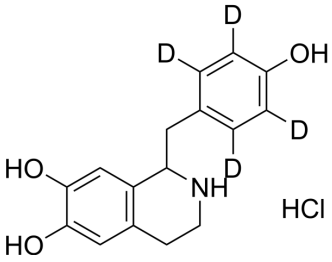
Higenamine-d_4-1 hydrochloride

Cat. No.:	HY-N2037AS1
Molecular Formula:	$C_{16}H_{14}D_4ClNO_3$
Molecular Weight:	311.8
Target:	Isotope-Labeled Compounds; MAP3K; MDM-2/p53; Apoptosis; ROS Kinase
Pathway:	Others; MAPK/ERK Pathway; Apoptosis; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Higenamine-d_4-1 (Norcoclaurine-d_4-1) hydrochloride is deuterium labeled Higenamine (hydrochloride). Higenamine hydrochloride is a selective LSD1 inhibitor (IC_{50}=1.47 μM) that can be isolated from aconite. Higenamine hydrochloride has anti-inflammatory and antibacterial activity. Higenamine (Norcoclaurine) can attenuate IL-1β-induced Apoptosis through ROS-mediated PI3K/Akt signaling pathway. Higenamine hydrochloride protects brain cells from oxygen deprivation. Higenamine can promote bone formation in osteoporosis through the SMAD2/3 pathway. Higenamine hydrochloride can be used to study cancer, inflammation, cardiorenal syndrome and other diseases[1][2][3][4][5][6][7].

REFERENCES

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[2]. Fang Y, et al. Discovery of higenamine as a potent, selective and cellular active natural LSD1 inhibitor for MLL-rearranged leukemia therapy. Bioorg Chem. 2021 Apr;109:104723.

[3]. Ha YM, et al. Higenamine reduces HMGB1 during hypoxia-induced brain injury by induction of heme oxygenase-1 through PI3K/Akt/Nrf-2 signal pathways. Apoptosis. 2012 May;17(5):463-74.

[4]. Zhu X, et al. Higenamine mitigates interleukin-1β-induced human nucleus pulposus cell apoptosis by ROS-mediated PI3K/Akt signaling. Mol Cell Biochem. 2021 Nov;476(11):3889-3897.

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[7]. Dong, Hui et al. Higenamine Promotes Osteogenesis Via IQGAP1/SMAD4 Signaling Pathway and Prevents Age- and Estrogen-Dependent Bone Loss in Mice. Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research vol. 38,5 (2023): 775-791.

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