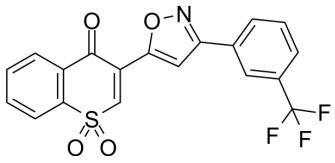
MAO-B-IN-28

Cat. No.:	HY-163031
CAS No.:	3028096-72-9
Molecular Formula:	$C_{19}H_{10}F_3NO_4S$
Molecular Weight:	405.35
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MAO-B-IN-28 (compound 10e) is a potent hMAO-B inhibitor with an IC_{50} of 1.9±0.5 nM. MAO-B-IN-28 can be used as a candidate for neurodegenerative diseases research[1].
IC_{50} & Target	monoamine oxidase B (MAO-B) IC50: 1.9±0.5 nM[1]
In Vitro	MAO-B-IN-28 (0.5-128 μM, 24 h) exhibits good cytotoxic effect on MCF-7 cells while having no remarkable cytotoxicity for MGC-803, HCT-116 and HepG2. MAO-B-IN-28 (0.5, 4 μM, 24 h) shows no cytotoxicity in both differentiated SH-SY5Y cells and HVSMC cells[1]. MAO-B-IN-28 (2, 4 μM, 24 h) doesn't cause an increase in ROS levels and doesn't cause oxidative damage to differentiated SH-SY5Y cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	MCF-7, MGC-803, HCT-116 and HepG2
Concentration:	0.5, 1, 2, 4, 8, 16, 32, 64, 128 μM
Incubation Time:	24 h
Result:	Exhibited cytotoxicity IC_{50}s (μM) of 5.816, 21.38, 83.16, 39.64 for MCF-7, HCT-116, HepG2 and MGC-803 cells, respectively.

REFERENCES

[1]. Pengbing Mi, et al. Discovery of C-3 isoxazole substituted thiochromone S,S-dioxide derivatives as potent and selective inhibitors for monoamine oxidase B (MAO-B). European Journal of Medicinal Chemistry. 2024□263□115956.

Caution: Product has not been fully validated for medical applications. For research use only.

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