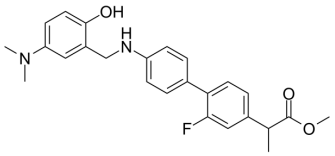
Neuroinflammatory-IN-2

Cat. No.:	HY-150563
CAS No.:	2361384-14-5
Molecular Formula:	$C_{25}H_{27}FN_2O_3$
Molecular Weight:	422.49
Target:	Monoamine Oxidase; Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Neuroinflammatory-IN-2 is a potent anti-neuroinflammatory agent with an IC_{50} value of 10.30 μM for MAO-B, and 96.33% inhibition of $Aβ_{1-42}$ aggregation at 25 μM. Neuroinflammatory-IN-2 has neuroprotective activity in H_2O_2-induced PC-12 cell injury. Neuroinflammatory-IN-2 also has biometal chelating abilities, antioxidant activity, anti-neuroinflammatory activity and appropriate BBB permeability. Neuroinflammatory-IN-2 can be used for researching Alzheimer's disease[1].
IC_{50} & Target	MAO-B 10.30 μM (IC_{50})
In Vitro	Neuroinflammatory-IN-2 (compound 7i) (1 and 10 μM) dramatically increases the viability of H_2O_2-treated PC-12 cells by 70.2% and 81.6% at 1 and 10 μM, respectively[1]. Neuroinflammatory-IN-2 (0.5, 2.5 and 10.0 μM) inhibits NO expression in LPS-stimulated BV-2 cells by 32.4%, 46.7% and 57.2% at the concentration of 0.5, 2.5 and 10.0 μM respectively; and inhibits TNF-α by 35.8%, 53.1% and 76.5%, respectively [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang Z, et al. Design, synthesis and evaluation of flurbiprofen-clioquinol hybrids as multitarget-directed ligands against Alzheimer's disease. Bioorg Med Chem. 2020 Apr 1;28(7):115374.

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