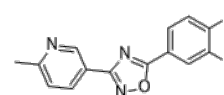


Product Name : DDO-7263
Cat. No. : PC-22478
CAS No. : 2254004-96-9
Molecular Formula : C₁₄H₉F₂N₃O
Molecular Weight : 273.24
Target : Keap1-Nrf2
Solubility : 10 mM in DMSO



Biological Activity

DDO-7263 is a potent small molecule Nrf2-ARE activator, inhibits NLRP3 inflammasome activation and shows neuroprotective effect, upregulates Nrf2 through binding to Rpn6 to block the assembly of 26S proteasome.

DDO-7263 protects PC12 neurons from H₂O₂-induced oxidative damage.

DDO-7263 upregulates Nrf2 through binding to Rpn6 to block the assembly of 26S proteasome and the subsequent degradation of ubiquitinated Nrf2.

DDO-7263 significantly inhibited NLRP3 activation, cleaved caspase-1 production and IL-1 β protein expression in ATP-LPS-exposed THP-Ms cells.

DDO-7263 improves the behavioral abnormalities induced by MPTP in mice, significantly attenuates chemically induced dopaminergic neuron loss of tyrosine hydroxylase (TH) in the substantia nigra (SN) and striatum of the mouse brain and inhibited the secretion of inflammatory factors.

References

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Dai Z, et al. J Med Chem. 2022 Mar 24;65(6):5029-5043.

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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