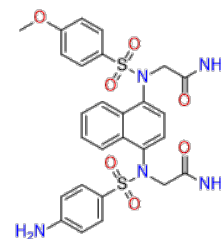


Product Name : NXPZ-2
Cat. No. : PC-28167
CAS No. : 2254492-08-3
Molecular Formula : C₂₇H₂₇N₅O₇S₂
Molecular Weight : 597.66
Target : Keap1-Nrf2
Solubility : 10 mM in DMSO



Biological Activity

NXPZ-2 is a potent, direct, non-covalent inhibitor of **Keap1-Nrf2** protein-protein interaction with K_i of 95 nM in FP assays and EC_{50} of 120 nM.

NXPZ-2 improves AD mice cognitive function on spatial learning and memory function in A β -induced AD mice using Morris water maze.

NXPZ-2 rescues the brain structure damage of AD mice with no obvious toxicity.

NXPZ-2 activates Nrf2 and decreases oxidative stress in AD mice.

NXPZ-2 decreases AD marker protein expression levels, with no effect on the Nrf2 knockout AD mouse model.

References

Sun Y, et al. *Bioorg Chem.* 2020 Oct;103:104172.

Sun Y, et al. *Redox Biol.* 2023 Aug;64:102793.

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

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