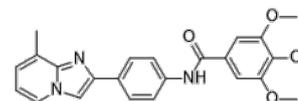


Product Name : DJ-1 inhibitor comp-23
Cat. No. : PC-22171
CAS No. : 724737-74-0
Molecular Formula : C₂₄H₂₃N₃O₄
Molecular Weight : 417.47
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 724737-74-0

Biological Activity

DJ-1 inhibitor comp-23 is a small molecule binding to DJ-1 (PARK7) with binding constant (K_d) of 0.1 μM, exerts a neuroprotective effect by reducing ROS-mediated neuronal injury.

Comp-23 prevents oxidative stress-induced death of SH-SY5Y cells and primary neuronal cells of the ventral mesencephalon but not that of DJ-1-knockdown SH-SY5Y cells.

Comp-23 exerts a neuroprotective effect by reducing ROS-mediated neuronal injury. Comp-23 inhibited the production of reactive oxygen species (ROS) induced by oxidative stress and prevented excess oxidation of DJ-1.

Comp-23 prevented dopaminergic cell death in the substantia nigra and restored movement abnormality in 6-hydroxydopamine-injected and rotenone-treated PD model rats and mice.

Comp-23 also reduces infarct size of cerebral ischemia in rats that had been induced by middle cerebral artery occlusion.

References

Yoshihisa Kitamura, et al. Mol Neurodegener. 2011 Jul 8;6(1):48.

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

E-mail: tech@probechem.com