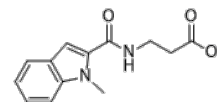


Product Name : Z3571
Cat. No. : PC-25774
CAS No. : 68724-80-1
Molecular Formula : C₁₃H₁₄N₂O₃
Molecular Weight : 246.27
Target : TRP Channel
Solubility : 10 mM in DMSO



CAS: 68724-80-1

Biological Activity

Z3571 is a potent, highly selective and orally bioavailable **TRPC6** inhibitor with binding KD of 1.62 uM, inhibits OAG-stimulated Ca²⁺ influx with IC₅₀ of 31.07 nM, shows >100-fold selectivity over TRPC3 and TRPC7.

Z3571 (1 uM) specifically inhibits TRPC6-mediated Ca²⁺ signaling, attenuates the OAG-induced [Ca²⁺]_i elevation in murine podocyte clone cell line MPC-5 cells, with no significant suppression of Tg- or EA-induced [Ca²⁺]_i elevation, suggesting no detectable activity against TRPC1/4/5 channels.

Z3571 attenuates ADR-induced injury in MPC-5 cells by targeting TRPC6.

Z3571 concentration-dependently suppresses the expression and channel function of TRPC6 in ADR-injured podocytes.

Z3571 suppresses TGF-β1-induced fibrosis in HK-2 cells by targeting TRPC6

Z3571 (12.5/25/50 mg/kg) dose-dependently restores kidney function and reduces podocyte damage in FSGS model mice.

Z3571 significantly ameliorates kidney function and reduces renal fibrosis in mice with UUO.

References

Lei Zhou, et al. *Biochem Pharmacol.* 2025 Nov 21:117557.

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

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