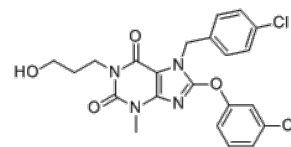


Product Name : HC-070
Cat. No. : PC-62504
CAS No. : 1628291-95-1
Molecular Formula : C₂₂H₂₀Cl₂N₄O₄
Molecular Weight : 475.326
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

HC-070 is a potent, selective, orally active inhibitor of **TRPC4** and **TRPC5** channel with IC₅₀ of 9.3 and 46 nM (calcium influx inhibition), respectively.

HC-070 displays >400-fold selectivity over a wide range of ion channels, receptors, and kinases.

HC-070 inhibits lanthanum-activated hTRPC5-mediated currents with an IC₅₀ of 0.52 nM in whole-cell manual patch clamp assay, also inhibits TRPC1/5 and TRPC1/4 heteromultimers with similar potency and reduces responses evoked by cholecystinin tetrapeptide (CCK-4) in the amygdala.

HC-070 attenuates the anxiogenic effect of CCK-4 in the elevated plus maze (EPM), and shows anxiolytic and anti-depressant effects in vivo.

References

Just S, et al. *PLoS One*. 2018 Jan 31;13(1):e0191225.

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

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