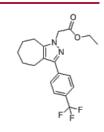


Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JNJ-28583113
Cat. No.	:	PC-72125
CAS No.	:	2765255-93-2
Molecular Formula	:	$C_{19}H_{21}F_{3}N_{2}O_{2}$
Molecular Weight	:	366.384
Target	:	TRP Channel
Solubility	:	10 mM in DMSO



Biological Activity

JNJ-28583113 (JNJ28583113) is a potent, selective, brain penetrant **TRPM2** antagonist with IC50 of 126 nM (hTRPM2). JNJ-28583113 shows similar potency against species chimpanzee and rat TRPM2 with IC50 of 100 and 25 nM, respectively. JNJ-28583113 shows no significant (IC50>10 uM) reactivity towards PARP or PARG and a panel for multiple known kinases GPCRs and ion channels, nine other TRP channels with exception of TRPM5 (IC50<1 uM).

Blocking TRPM2 via JNJ-28583113 caused phosphorylation of GSK3 α and β subunits in cell assays.

JNJ-28583113 also protected cells from oxidative stress induced cell death as well as morphological changes induced by non-cytotoxic concentrations of $H2O2_{\circ}$

JNJ-28583113 blunted cytokine release in response to pro-inflammatory stimuli in microglia.

JNJ-28583113 was brain penetrant but not suitable for systemic dosing as it was rapidly metabolized in vivo, but the in-vitro pharmacology of JNJ-28583113 is the best in class.

References

Lawrence Fourgeaud, et al. Eur J Pharmacol. 2019 Jun 15;853:299-307.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com