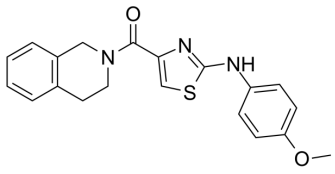
TRPC3/6-IN-1

Cat. No.:	HY-147357
CAS No.:	736945-96-3
Molecular Formula:	$C_{20}H_{19}N_3O_2S$
Molecular Weight:	365.45
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TRPC3/6-IN-1 is a potent selectivity blocker of the canonical transient receptor channels (TRPC3/6), has block potency for hTRPC3 and hTRPC6 with IC_{50} values of 1260 nM and 500 nM, respectively. TRPC3/6-IN-1 can be used for the research of chronic models of heart failure[1].
IC_{50} & Target	hTRPC3 1260 nM (IC_{50}) hTRPC6 500 nM (IC_{50})
In Vitro	TRPC3/6-IN-1 has block potency for hTRPC3 and hTRPC6 with IC_{50} values of 1260 nM and 500 nM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	TRPC3/6-IN-1 (compound 3) has good pharmacokinetic in rats[1]. Pharmacokinetic Parameters of TRPC3/6-IN-1 in rats [1].

Compd	Dose(iv)(mg/kg)	C_{max}(iv)(ng/ml)	CL(iv)(ml/min/kg)	MRT(iv)(h)	DNAUC(iv)(h•kg/L)	%F
3	0.93	250	120	0.3	0.14	~1

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REFERENCES

[1]. David G Washburn, et al. The discovery of potent blockers of the canonical transient receptor channels, TRPC3 and TRPC6, based on an anilino-thiazole pharmacophore. Bioorg Med Chem Lett. 2013 Sep 1;23(17):4979-84.

Caution: Product has not been fully validated for medical applications. For research use only.

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