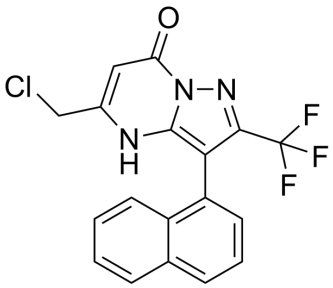
QO-40

Cat. No.:	HY-130070
CAS No.:	1259536-70-3
Molecular Formula:	$C_{18}H_{11}ClF_3N_3O$
Molecular Weight:	377.75
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	QO-40 is a pyrazolo[1,5-a]pyrimidine-7(4H)-one (PPO) derivative and an activator of the voltage-gated M-type potassium channel KCNQ encoded by the KCNQ2/3 gene (EC_{50}: 1.25 μM)[1][2].
IC_{50} & Target	vEC50: 1.25 μM (oltage-gated M-type potassium channel)[1]
In Vitro	QO-40 (100 μM) increases KCNQ2/3 currents in CHO cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay[1]

Cell Line:	CHO cells
Concentration:	100 μM
Incubation Time:	
Result:	Increased the amplitude of the activated outward current at 0 mV.

REFERENCES

[1]. Jia C, et al. Activation of KCNQ2/3 potassium channels by novel pyrazolo[1,5-a]pyrimidin-7(4H)-one derivatives. Pharmacology. 2011;87(5-6):297-310.

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