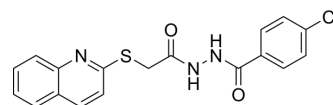


TKIM

Cat. No.:	HY-134559		
CAS No.:	326921-25-9		
Molecular Formula:	C ₁₈ H ₁₄ ClN ₃ O ₂ S		
Molecular Weight:	371.84		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (672.33 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6893 mL	13.4466 mL	26.8933 mL
	5 mM	0.5379 mL	2.6893 mL	5.3787 mL
	10 mM	0.2689 mL	1.3447 mL	2.6893 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TKIM is a TREK-1 channel inhibitor with an IC₅₀ of 2.96 μM. TKIM binds to the pocket of the intermediate (IM) state of TREK-1 [1].

REFERENCES

[1]. Yuqin Ma, et al. Discovery of an Inhibitor for the TREK-1 Channel Targeting an Intermediate Transition State of Channel Gating. J Med Chem. 2020 Oct 8;63(19):10972-10983.

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

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