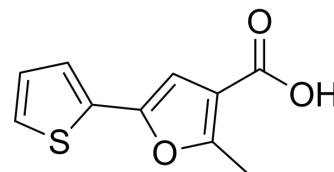


Jedi2

Cat. No.:	HY-131018		
CAS No.:	651005-90-2		
Molecular Formula:	C ₁₀ H ₈ O ₃ S		
Molecular Weight:	208.23		
Target:	Piezo 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 : 50 mg/mL (240.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.8024 mL	24.0119 mL	48.0238 mL
		5 mM	0.9605 mL	4.8024 mL	9.6048 mL
10 mM		0.4802 mL	2.4012 mL	4.8024 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (12.01 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Jedi2 is a Piezo1 activator, but not a specific Piezo2 activator. Jedi2 binds to the mouse Piezo1 proteins with a K _d of 2770 μM [1].
In Vitro	Jedi2 evokes Piezo1-mediated Ca ²⁺ influx. Jedi2 (200 μM) specifically elicits dose-dependent responses in mPiezo1-transfected cells, but not in mPiezo2- or vector-transfected cells [1]. Jedi2 (1 mM) causes an increase in Ca ²⁺ in mCherry-positive HEK293T cells transfected with the mPiezo1-mCherry construct, which also responded to Yoda1 (30 μM) [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yanfeng Wang, et al. A lever-like transduction pathway for long-distance chemical- and mechano-gating of the mechanosensitive Piezo1 channel. Nat Commun. 2018 Apr 3;9(1):1300.

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

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