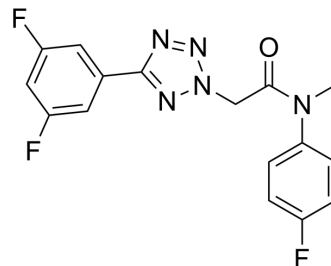


TMDJ-035

Cat. No.:	HY-149662	
CAS No.:	2681302-83-8	
Molecular Formula:	C ₁₆ H ₁₂ F ₃ N ₅ O	
Molecular Weight:	347.29	
Target:	Calcium Channel	
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (287.94 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.8794 mL	14.3972 mL	28.7944 mL
		5 mM		0.5759 mL	2.8794 mL	5.7589 mL
	10 mM		0.2879 mL	1.4397 mL	2.8794 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.20 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	TMDJ-035 is a selective RyR2 inhibitor. TMDJ-035 suppresses abnormal Ca ²⁺ waves and transients in isolated cardiomyocytes from RyR2-mutated mice. TMDJ-035 is a tool for studying the mechanism and dynamics of RyR2 channel gating ^[1] .
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REFERENCES

[1]. Ryosuke Ishida, et al. A potent and selective cis-amide inhibitor of ryanodine receptor 2 as a candidate for cardiac arrhythmia treatment. European Journal of Medicinal Chemistry

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

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