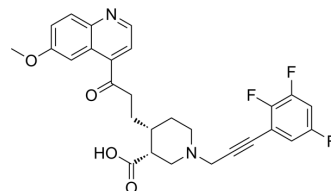


RPR-260243

Cat. No.:	HY-16915
CAS No.:	668463-35-2
Molecular Formula:	C ₂₈ H ₂₅ F ₃ N ₂ O ₄
Molecular Weight:	510.5
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 : 10 mg/mL (19.59 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.9589 mL	9.7943 mL	19.5886 mL
		5 mM		0.3918 mL	1.9589 mL	3.9177 mL
10 mM			0.1959 mL	0.9794 mL	1.9589 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (1.96 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (1.96 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (1.96 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	RPR-260243, a potent activator of human ether-a-go-go-related gene (hERG), slows deactivation and attenuates inactivation of hERG1 channels. RPR260243-modified hERG currents are inhibited by Dofetilide (IC ₅₀ =58 nM). RPR260243 displays no activator-like effects on other voltage-dependent ion channels, including the closely related ERG3 K ⁺ channel ^{[1][2]} . RPR-260243 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vitro	RPR-260243 enhances the delayed rectifier current in guinea pig myocytes but, when administered alone, has little effect on

action potential parameters in these cells^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Research Square Preprint. 2023 Apr 3.

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REFERENCES

[1]. Wu W, et al. Concatenated hERG1 tetramers reveal stoichiometry of altered channel gating by RPR-260243. *Mol Pharmacol.* 2015;87(3):401-409.

[2]. Kang J, et al. Discovery of a small molecule activator of the human ether-a-go-go-related gene (HERG) cardiac K⁺ channel. *Mol Pharmacol.* 2005;67(3):827-836.

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

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