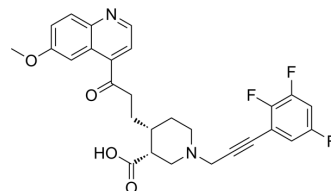


RPR-260243

| | | | |
|---------------------------|--|-------|----------|
| 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) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 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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