CCG258208

®

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| CAS No.:20Molecular Formula:C2Molecular Weight:45Target:GPathway:GIStorage:PI | Y-109562 055990-90-2 44H ₂₅ FN ₄ O ₄ 52.48 Protein-coupled Receptor Kinase (GRK) PCR/G Protein ease store the product under the recommended conditions in the Certificate of nalysis. | |
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| Description | maintaining 230-fold se | CCG258208 (GRK2-IN-1) is a potent and selective GRK2 (G protein-coupled receptor kinase 2) inhibitor (IC ₅₀ =30 nM) while maintaining 230-fold selectivity over GRK5 (IC ₅₀ =7.09 μM) and more than 2500-fold selectivity over GRK1 (IC ₅₀ =87.3 μM), PKA, and ROCK1. CCG258208 can be used in heart failure research ^[1] . | | |
|---------------------------|-----------------------------------|---|--|--|
| IC ₅₀ & Target | GRK2 30 nM (IC ₅₀) | GRK5 7.1 μM (IC ₅₀) | | |
| In Vitro | cardiomyocytes ^[1] . | MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| | Cell Line: | Mouse cardiomyocytes | | |
| | Concentration: | 0, 0.1, 0.5, and 1 μM | | |
| | Incubation Time: | 10 min | | |
| | Result: | Showed a significant increase in contractility at a concentration of only 0.1 $\mu\text{M}.$ | | |
| In Vivo | | CCG258208 (Compound 14as) (intraperitoneal injection; 10 mg/kg; once) treatment shows superior half-life in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| | Animal Model: | CD-1 mice ^[1] | | |
| | Dosage: | 10 mg/kg | | |
| | Administration: | Intraperitoneal injection; 10 mg/kg; once | | |
| | Result: | Showed total plasma drug levels after single IP administration that exceed the GRK2 IC ₅₀ for seven hours. | | |

REFERENCES

[1]. Waldschmidt HV, et al. Structure-Based Design of Highly Selective and Potent G Protein-Coupled Receptor Kinase 2Inhibitors Based on Paroxetine. J Med Chem. 2017 Apr 13;60(7):3052-3069.

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

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