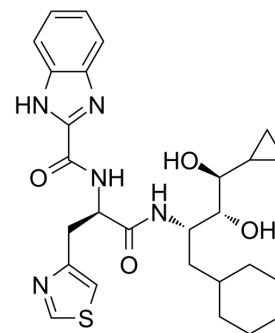


Ro 0437626

| | |
|---------------------------|---|
| Cat. No.: | HY-108673 |
| CAS No.: | 134362-79-1 |
| Molecular Formula: | C ₂₇ H ₃₅ N ₅ O ₄ S |
| Molecular Weight: | 525.66 |
| Target: | P2X Receptor |
| Pathway: | Membrane Transporter/Ion Channel |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Ro 0437626 is a selective purinergic (P2X ₁) receptor antagonist (IC ₅₀ = 3 μM), but shows low affinity for P2X ₂ , P2X ₃ and P2X _{2/3} receptors (IC ₅₀ > 100 μM) ^[1] . |
| IC₅₀ & Target | IC ₅₀ : 3 μM (P2X ₁ receptor) |
| In Vitro | Ro 0437626 reduces PMA-evoked Ca ²⁺ entry with 6.8 ± 4.7% of control ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | Ro 0437626 (1 and 10 μmol/kg; i.v.) causes a reduction in postinfusion isovolumetric contractions ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| Animal Model: | Female rat (urethane-anaesthetized) ^[3] |
| Dosage: | 1 and 10 μmol/kg |
| Administration: | I.v. |
| Result: | Caused a reduction in postinfusion isovolumetric contractions. |

REFERENCES

- [1]. Jaime-Figueroa S, et al. Discovery and synthesis of a novel and selective drug-like P2X₁ antagonist. *Bioorg Med Chem Lett*. 2005;15(13):3292-3295.
- [2]. Harper MT, et al. Phorbol ester-evoked Ca²⁺ signaling in human platelets is via autocrine activation of P(2X₁) receptors, not a novel non-capacitative Ca²⁺ entry. *J Thromb Haemost*. 2010;8(7):1604-1613.
- [3]. King BF, et al. Investigation of the effects of P2 purinoceptor ligands on the micturition reflex in female urethane-anaesthetized rats. *Br J Pharmacol*. 2004;142(3):519-530.

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

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