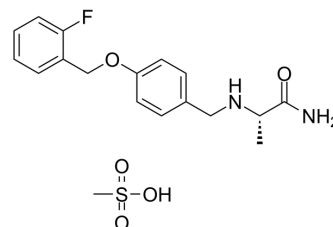


Ralfinamide mesylate

Cat. No.:	HY-101437A
CAS No.:	202825-45-4
Molecular Formula:	C ₁₈ H ₂₃ FN ₂ O ₅ S
Molecular Weight:	398.45
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ralfinamide mesylate (FCE-26742A mesylate) is an orally available Na ⁺ channel blocker derived from α-aminoamide, with function of suppressing pain ^{[1][2]} .									
IC₅₀ & Target	Na ⁺ channel ^[1]									
In Vivo	<p>Ralfinamide (30 mg/kg, 60 mg/kg; p.o.; twice daily; 42 days) treated with Ralfinamide (80 mg/kg; p.o.; twice daily; 7 days) preoperatively suppresses neuropathic pain^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>81 adult male Sprague–Dawley male rats (260–460 g)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>80 mg/kg (7 days preoperatively), 30 mg/kg, 60 mg/kg (postoperative)</td> </tr> <tr> <td>Administration:</td> <td>Oral gavage; twice daily; until postoperative day 42</td> </tr> <tr> <td>Result:</td> <td>Suppressed neuropathic pain.</td> </tr> </table>		Animal Model:	81 adult male Sprague–Dawley male rats (260–460 g) ^[1]	Dosage:	80 mg/kg (7 days preoperatively), 30 mg/kg, 60 mg/kg (postoperative)	Administration:	Oral gavage; twice daily; until postoperative day 42	Result:	Suppressed neuropathic pain.
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CUSTOMER VALIDATION

- Acta Pharmacol Sin. 2021 Jun 8.

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REFERENCES

- Zhang SH, et al. Ralfinamide administered orally before hindpaw neurectomy or postoperatively provided long-lasting suppression of spontaneous neuropathic pain-related behavior in the rat. *Pain*. 2008 Oct 15;139(2):293-305.
- Liang X, et al. Effects of ralfinamide in models of nerve injury and chemotherapy-induced neuropathic pain. *Eur J Pharmacol*. 2018 Mar 15;823:27-34.

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

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