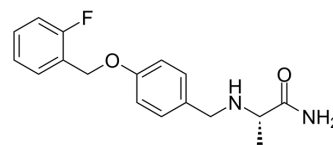


## Ralfinamide

Cat. No.:	HY-101437		
CAS No.:	133865-88-0		
Molecular Formula:	C <sub>17</sub> H <sub>19</sub> FN <sub>2</sub> O <sub>2</sub>		
Molecular Weight:	302.34		
Target:	Sodium 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 : ≥ 125 mg/mL (413.44 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Solvent	1 mg	5 mg	10 mg
	Mass			
Preparing Stock Solutions	1 mM	3.3075 mL	16.5377 mL	33.0753 mL
	5 mM	0.6615 mL	3.3075 mL	6.6151 mL
	10 mM	0.3308 mL	1.6538 mL	3.3075 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Ralfinamide (FCE-26742A) is an orally available Na<sup>+</sup> blocker derived from α-aminoamide, with function of suppressing pain<sup>[1]</sup> [2].

#### IC<sub>50</sub> & Target

Na<sup>+</sup>channel<sup>[1]</sup>

#### In Vivo

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<sup>[1]</sup>.

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

Animal Model:	81 adult male Sprague–Dawley male rats (260–460 g) <sup>[1]</sup>
Dosage:	80 mg/kg (7 days preoperatively), 30 mg/kg, 60 mg/kg (postoperative)

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Administration:	Oral gavage; twice daily; until postoperative day 42
Result:	Suppressed neuropathic pain.

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## REFERENCES

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- [1]. Zhang SH, et al. Ralpinamide 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.
- [2]. Liang X, et al. Effects of ralpinamide in models of nerve injury and chemotherapy-induced neuropathic pain. *Eur J Pharmacol*. 2018 Mar 15;823:27-34.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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