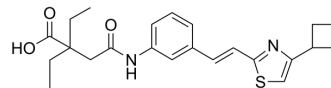


Ro 24-5913

Cat. No.:	HY-107611
CAS No.:	128312-51-6
Molecular Formula:	C ₂₃ H ₂₈ N ₂ O ₃ S
Molecular Weight:	412.55
Target:	Leukotriene Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ro 24-5913 (Cinalukast) is an orally active and potent LTD ₄ antagonist with an IC ₅₀ value of 6.4 nM. Ro 24-5913 can be used for the research of asthma ^[1] .								
IC₅₀ & Target	IC ₅₀ : 6.4 nM (LTD ₄) ^[1]								
In Vitro	Ro 24-5913 competes with [³ H]LTD ₄ for its binding site in guinea pig lung membranes with an IC ₅₀ value of 6.4 nM ^[1] . Ro 24-5913 shows effective antagonist efficacy to LTD ₄ -induced contractions with a pK _B value of 9.3 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	Ro 24-5913 (10 mg/kg i.v. and 100 mg/kg p.o.; once) inhibits LTD ₄ -induced bronchoconstriction in guinea pigs with LD ₅₀ s of 0.13 and 0.12 mg/kg for i.v. and p.o. respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Guinea pigs^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral gavage; 10 mg/kg once</td> </tr> <tr> <td>Result:</td> <td>Inhibited LTD₄-induced bronchoconstriction and antigen-induced bronchoconstriction in guinea pigs.</td> </tr> </table>	Animal Model:	Guinea pigs ^[1]	Dosage:	10 mg/kg	Administration:	Oral gavage; 10 mg/kg once	Result:	Inhibited LTD ₄ -induced bronchoconstriction and antigen-induced bronchoconstriction in guinea pigs.
Animal Model:	Guinea pigs ^[1]								
Dosage:	10 mg/kg								
Administration:	Oral gavage; 10 mg/kg once								
Result:	Inhibited LTD ₄ -induced bronchoconstriction and antigen-induced bronchoconstriction in guinea pigs.								

REFERENCES

[1]. O'Donnell M. Ro 24-5913: a potent, specific, orally active LTD₄ antagonist. Ann NY Acad Sci. 1991;629:413-5.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA