

## Iralukast (CGP 45715A)

## Chemical Properties

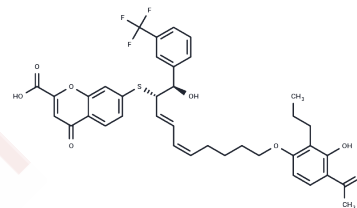
CAS No. : 151581-24-7

Formula: C<sub>38</sub>H<sub>37</sub>F<sub>3</sub>O<sub>8</sub>S

Molecular Weight: 710.76

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Iralukast is a cysteinyl-leukotriene antagonist (CysLT) with a pKi of 7.8 for CysLT1.
Targets(IC50)	Others,Leukotriene Receptor
In vitro	Both Iralukast and CGP 57698 are able to compete for the two sites labelled by [3H]-LTD4. As in all the G-protein coupled receptors, Iralukast and CGP 57698 do not discriminate between the high and the low affinity states of the CysLT receptor labelled by LTD4 (Ki1=Ki2=16.6 nM±36% CV and Ki1=Ki2=5.7 nM±19% CV, respectively). Iralukast, displays a slow binding kinetic, because preincubation (15 min) increases its antagonist potency. Iralukast and CGP 57698 antagonize LTD4-induced contraction of human bronchi, with pA2 values of 7.77±4.3% CV and 8.51±1.6% CV, respectively, and slopes not significantly different from unity[2].

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4069 mL	7.0347 mL	14.0694 mL
5 mM	0.2814 mL	1.4069 mL	2.8139 mL
10 mM	0.1407 mL	0.7035 mL	1.4069 mL
50 mM	0.0281 mL	0.1407 mL	0.2814 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Magnus B?ck, et al. Update on leukotriene, lipoxin and oxoeicosanoid receptors: IUPHAR Review 7. Br J Pharmacol. 2014 Aug; 171(15): 3551-3574.

Valérie Capra, et al. Pharmacological characterization of the cysteinyl-leukotriene antagonists CGP 45715A (iralukast) and CGP 57698 in human airways in vitro. Br J Pharmacol. 1998 Feb; 123(3): 590-598.

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