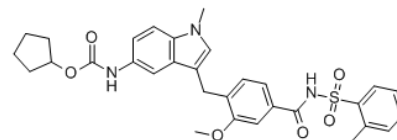


**Product Name** : Zafirlukast  
**Cat. No.** : PC-45294  
**CAS No.** : 107753-78-6  
**Molecular Formula** : C<sub>31</sub>H<sub>33</sub>N<sub>3</sub>O<sub>6</sub>S  
**Molecular Weight** : 575.6752  
**Target** : Leukotriene Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Zafirlukast (ICI-204219) is a potent, selective, orally active cysteinyl leukotriene 1 (**CysLT1**) receptor antagonist with IC<sub>50</sub> of 14 nM in cell-based calcium mobilization assays.

Zafirlukast is selective for CysLT1 over CysLT2 receptors (IC<sub>50</sub>=58 uM).

Zafirlukast inhibits mucus secretion induced by leukotriene D4 (LTD4) in isolated guinea pig trachea (IC<sub>50</sub>=0.6 μM).

Zafirlukast (5 μM) inhibits ovalbumin-induced increases in tracheal mucus secretion in ovalbumin-sensitized guinea pigs by 65%.

Zafirlukast inhibits LTD4-induced bronchoconstriction in anesthetized guinea pigs (ED<sub>50</sub> = 61 nmol/kg, i.v.).

## References

Buckner CK, et al. *J Pharmacol Exp Ther.* 1990 Jan;252(1):77-85.

Spector SL, et al. *Am J Respir Crit Care Med.* 1994 Sep;150(3):618-23.

Kidney JC, et al. *Am Rev Respir Dis.* 1993 Jan;147(1):215-7.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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