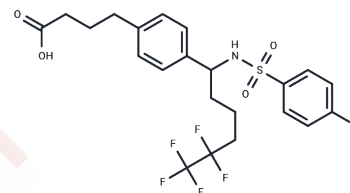


RS-601

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 207987-59-5  |
| Formula:          | C22H23F6NO4S   |
| Molecular Weight: | 511.48   |
| Storage:          | Store at low temperature<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |  |
|---------------|--|
| Description   | RS-601 is a potent dual leukotriene D4/thromboxane A2 inhibitor that inhibits antigen-induced airway hyperresponsiveness (AHR) and shows asthmatic effects in a guinea pig model of asthma.  |
| Targets(IC50) | Leukotriene Receptor, Prostaglandin Receptor, Thrombin   |
| In vivo       | In a dose-dependent fashion in guinea pigs, RS-601 (1-10 mg/kg) clearly inhibits the bronchoconstriction induced by intravenous administration of U-46619 and LTD4. Similarly, RS-1452 (10 mg/kg) significantly inhibits U-46619-induced bronchoconstriction. At a dose of 10 mg/kg, RS-601 significantly inhibits the late-phase response and LPS-induced AHR. However, it does not affect biphasic bronchial responses. Additionally, RS-601 (3 and 10 mg/kg) clearly inhibits the AHR[1]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.9551 mL | 9.7756 mL | 19.5511 mL |
| 5 mM  | 0.391 mL  | 1.9551 mL | 3.9102 mL  |
| 10 mM | 0.1955 mL | 0.9776 mL | 1.9551 mL  |
| 50 mM | 0.0391 mL | 0.1955 mL | 0.391 mL   |

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

Yamada T, et al. Effects of RS-601, a novel leukotriene D(4)/thromboxane A(2) dual receptor antagonist, on asthmatic responses in guinea pigs. Pharmacology. 2003 Sep;69(1):51-8.

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