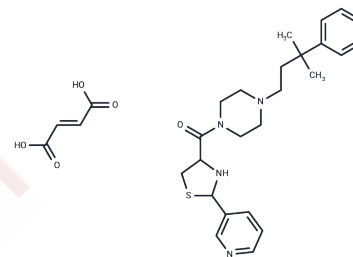


YM-264

Chemical Properties

CAS No. : 131888-54-5
 Formula: C₂₈H₃₆N₄O₅S
 Molecular Weight: 540.67
 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	YM-264 is a selective and orally active antagonist of platelet-activating factor (PAF) (pK _i value of 8.85 for rabbit platelet membranes).
Targets(IC ₅₀)	Others,PAFR
In vitro	YM-264 inhibits [³ H] platelet-activating factor binding to rabbit platelet membranes with a pK _i value of 8.85. YM-264 inhibits the platelet-activating factor-induced human, rabbit and guinea-pig platelet aggregation with pA ₂ values of 8.68, 8.33 and 8.14, respectively [1].
In vivo	Antigen exposure-induced airway hyperresponsiveness is significantly reduced with YM-264 administration. The control group shows a baseline airway resistance (R _{rs}) value of 0.40 (0.02) cm H ₂ O/mL/s (n=6), compared to YM-264 treated groups which exhibit baseline R _{rs} values of 0.39 (0.01) cm H ₂ O/mL/s for 1 mg/kg (n=5) and 0.36 (0.01) cm H ₂ O/mL/s for 3 mg/kg (n=6). During immediate allergic reactions, R _{rs} notably increases to 0.92 (0.10) cm H ₂ O/mL/s in the control (p=0.0002), contrasted with lesser increases of 0.81 (0.12) cm H ₂ O/mL/s at 1 mg/kg (p=0.01) and 1.06 (0.29) cm H ₂ O/mL/s at 3 mg/kg (p=0.048) in the YM-264 treated groups. Furthermore, a significant re-elevation of R _{rs} to 0.72 (0.10) cm H ₂ O/mL/s (p=0.0101) from baseline is observed in the control group 6 hours post-antigen challenge, whereas YM-264 at doses of 1 and 3 mg/kg markedly inhibits this rise in comparison. Additionally, YM-264 demonstrates a dose-dependent inhibition of eosinophil infiltration.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8496 mL	9.2478 mL	18.4956 mL
5 mM	0.3699 mL	1.8496 mL	3.6991 mL
10 mM	0.185 mL	0.9248 mL	1.8496 mL
50 mM	0.037 mL	0.185 mL	0.3699 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. Pharmacological properties of YM264, a potent and orally active antagonist of platelet-activating factor. Arch Int Pharmacodyn Ther. 1990 Nov-Dec;308:123-36.

Arima M, et al. Effect of YM264 on the airway hyperresponsiveness and the late asthmatic response in a guinea pig model of asthma. Chest. 1995 Aug;108(2):529-34.

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