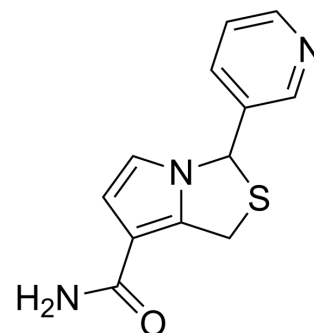


48740 RP

Cat. No.:	HY-100153
CAS No.:	93363-11-2
Molecular Formula:	C ₁₂ H ₁₁ N ₃ OS
Molecular Weight:	245.3
Target:	Platelet-activating Factor Receptor (PAFR)
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	48740 RP (RP-55778) is a platelet-activating factor (PAF) antagonist.
IC₅₀ & Target	PAF ^[1]
In Vivo	<p>48740 RP (RP-55778) is a platelet-activating factor (PAF) antagonist. In animals treated with 48740 RP only, the number of platelets is increased at a time corresponding to 2 and 4 h after the exposure to lipopolysaccharide (LPS) and the number of eosinophils is also slightly increased. Treatment with 48740 RP in combination with the LPS exposure does not influence the increase in neutrophils seen 2 and 4 h after exposure. At 24 h the increase in the number of neutrophils is about half that in control animals. No effects are found on the LPS-induced increase in number of platelets. In animals pretreated with 48740 RP, there is a significant reduction in capillary permeability^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

PROTOCOL

Animal Administration ^[1]	<p>Guinea pigs of both sexes weighing 300 to 500 g are used for the determination of free lung cell responses and histopathologic examination. Male hamsters, weighing 100 g, are used for capillary permeability determinations. Guinea pigs are pretreated with an intraperitoneal injection of 48740 RP at 20 mg/kg in saline 1 h before exposure to lipopolysaccharide (LPS) and immediately thereafter. Groups of hamsters (n=6) are treated immediately before aerosol exposure, immediately after, and 3 h afterwards^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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REFERENCES

[1]. Rylander R, et al. Modulation of pulmonary inflammation after endotoxin inhalation with a platelet-activating factor antagonist (48740 RP). *Int Arch Allergy Appl Immunol.* 1988;86(3):303-7.

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

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