
Product Data Sheet

Product Name: 48740 RP (RP-55778)

Cat. No.: GC31917

Chemical Properties

Cas. No. 93363-11-2

SMILES O=C(C(C=C1)=C2N1C(C3=CC=CN=C3)SC2)NFormula C₁₂H₁₁N₃OS M.Wt 245.3

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol****Animal experiment:**

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].

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

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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.

Background

48740 RP is a platelet-activating factor (PAF) antagonist.

48740 RP 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].

[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.

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