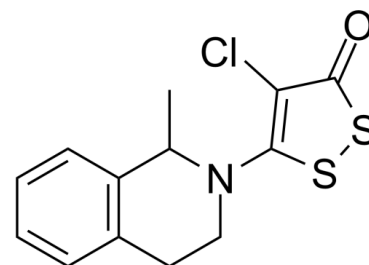


Data Sheet

Product Name:	RP-54745
Cat. No.:	CS-6750
CAS No.:	135330-08-4
Molecular Formula:	C ₁₃ H ₁₂ CINOS ₂
Molecular Weight:	297.82
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Solubility:	H ₂ O : < 0.1 mg/mL (insoluble); DMSO : 62.5 mg/mL (209.86 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

RP-54745 is an inhibitor of macrophage stimulation and **interleukin-1** production, and a potential antirheumatic compound. **In Vitro:** RP-54745 diminishes LPS-induced interleukin-1 (IL-1) production by murine peritoneal macrophages^[1]. **In Vivo:** RP-54745 (5 mg/kg) is effective at moderating oral doses in different mouse models of induced arthritis and in the MRL/lpr mice, genetically predisposed to develop an autoimmune pathology including arthritic disorders. The clinical status of the MRL mice, and several of their disturbed biochemical and immunological parameters, improved after a 3-month treatment with RP-54745^[2].

References:

- [1]. Folliard F, et al. RP 54745, a potential antirheumatic compound. I. Inhibitor of macrophage stimulation and interleukin-1 production. Agents Actions. 1992 May;36(1-2):119-26.
- [2]. Folliard F, et al. RP 54745, a potential antirheumatic compound. II. In vivo properties in different animal models. Agents Actions. 1992 May;36(1-2):127-35.

CAIndexNames:

3H-1,2-Dithiol-3-one, 4-chloro-5-(3,4-dihydro-1-methyl-2(1H)-isoquinolinyl)-

SMILES:

O=C1SSC(N2C(C)C3=C(C=CC=C3)CC2)=C1Cl

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

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