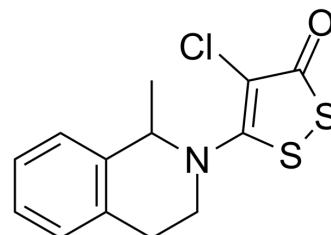


## RP-54745

<b>Cat. No.:</b>	HY-101716		
<b>CAS No.:</b>	135330-08-4		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>12</sub> ClNOS <sub>2</sub>		
<b>Molecular Weight:</b>	297.82		
<b>Target:</b>	Interleukin Related		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 62.5 mg/mL (209.86 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.3577 mL	16.7887 mL	33.5773 mL
		5 mM	0.6715 mL	3.3577 mL	6.7155 mL
10 mM		0.3358 mL	1.6789 mL	3.3577 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.98 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.98 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	RP-54745 is an inhibitor of macrophage stimulation and interleukin-1 production, and a potential antirheumatic compound.
<b>IC<sub>50</sub> &amp; Target</b>	IL-1
<b>In Vitro</b>	RP-54745 diminishes LPS-induced interleukin-1 (IL-1) production by murine peritoneal macrophages <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	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

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with RP-54745<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA