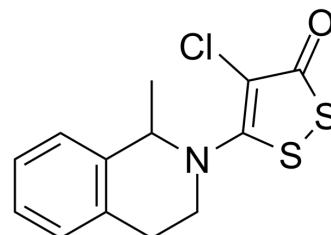


RP-54745

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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (209.86 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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.					
In Vivo	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

Description	RP-54745 is an inhibitor of macrophage stimulation and interleukin-1 production, and a potential antirheumatic compound.
IC₅₀ & Target	IL-1
In Vitro	RP-54745 diminishes LPS-induced interleukin-1 (IL-1) production by murine peritoneal macrophages ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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].

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

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.

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

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