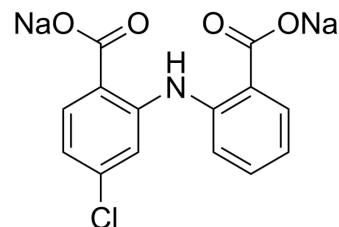


Lobenzarit disodium

Cat. No.:	HY-107360
CAS No.:	64808-48-6
Molecular Formula:	C ₁₄ H ₈ ClNNa ₂ O ₄
Molecular Weight:	335.65
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.85 mg/mL (14.45 mM); ultrasonic and warming and adjust pH to 5 with HCl and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9793 mL	14.8965 mL	29.7929 mL
	5 mM	0.5959 mL	2.9793 mL	5.9586 mL
	10 mM	0.2979 mL	1.4896 mL	2.9793 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lobenzarit disodium (CCA) is an anti-arthritic and anti-oxidative agent^[1].

In Vitro

Lobenzarit disodium (CCA) inhibits chemiluminescence induced by activated oxygen with an IC₅₀ of 1.6 μM^[1].
Lobenzarit disodium (0.3-300 μM) inhibits the production of lipid peroxide and the IgG alteration induced by UV irradiation^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Lobenzarit disodium (CCA; 10 and 50 mg/kg; i.p.; daily for 7 days) exerts its anti-arthritic effect through the activation of suppressor T lymphocytes^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Sprague-Dawley rats ^[2]
Dosage:	10 and 50 mg/kg
Administration:	IP; daily for 7 days

Result:	Showed anti-arthritic effect, but had no therapeutic effect in arthritic rats which were depleted of T lymphocytes.
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REFERENCES

[1]. Cynshi O, et al. Anti-oxidative profile of lobenzarit disodium (CCA). *Biochem Pharmacol.* 1990 Nov 1;40(9):2117-22.

[2]. Yoshiyuki Ohsugi, et al. Therapeutic effect of lobenzarit disodium (CCA) on adjuvant arthritis in rats: Short-lived suppressor T lymphocytes might be involved. 1984 Apr 3; 243-245.

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

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