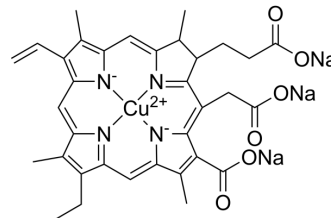


## Chlorophyllin sodium copper salt

<b>Cat. No.:</b>	HY-B0911
<b>CAS No.:</b>	11006-34-1
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>31</sub> CuN <sub>4</sub> Na <sub>3</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	724.15
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	4°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

H<sub>2</sub>O : ≥ 66.66 mg/mL (92.05 mM)  
 DMSO : < 1 mg/mL (insoluble or slightly soluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.3809 mL	6.9046 mL	13.8093 mL
	5 mM	0.2762 mL	1.3809 mL	2.7619 mL
	10 mM	0.1381 mL	0.6905 mL	1.3809 mL

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

#### In Vivo

1. Add each solvent one by one: PBS  
 Solubility: 5 mg/mL (6.90 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Chlorophyllin sodium copper salt is an orally active green pigment, antioxidant and antimutagenic agent. Chlorophyllin sodium copper salt promotes hematopoiesis and thrombopoiesis<sup>[1][2]</sup>.

#### In Vivo

Chlorophyllin sodium copper salt (25, 50, 100 mg/kg/day; Gastrogavage; for 20 days) with medium and high doses increases peripheral blood white cell and platelet counts<sup>[1]</sup>.

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

Animal Model:	Aplastic anemic BALB/c mice <sup>[1]</sup>
Dosage:	25, 50, 100 mg/kg

Administration:	Gastrogavage; daily; for 20 days
Result:	Peripheral blood white cell and platelet counts were increased by medium and high doses.  The percentage of Forkhead box protein 3 (FOXP3 <sup>+</sup> ) T cells was increased in T cell-MSC cocultures, and the cytokine transforming growth factor $\beta$ 1 was up-regulated.

## REFERENCES

- [1]. Li-Ming Yin, et al. Effects of sodium copper chlorophyllin on mesenchymal stem cell function in aplastic anemia mice. Chin J Integr Med. 2013 May;19(5):360-6.
- [2]. Sanja M. Petrovic, et al. Chlorophyllin sodium copper salt in hydrogel formulations: spectrophotometric stability studies and in vitro release. Chemical Papers. Volume 77, pages 2635–2645, (2023).

**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

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