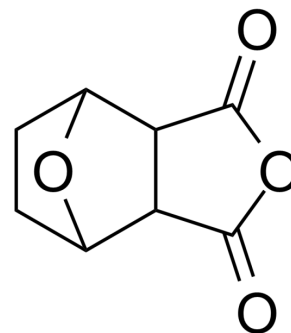


## (Rac)-Norcantharidin

Cat. No.:	HY-N0585
CAS No.:	5442-12-6
Molecular Formula:	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>
Molecular Weight:	168.15
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	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	DMSO : 125 mg/mL (743.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	5.9471 mL	29.7354 mL	59.4707 mL
		5 mM	1.1894 mL	5.9471 mL	11.8941 mL
	10 mM	0.5947 mL	2.9735 mL	5.9471 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 (12.37 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (12.37 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (12.37 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	(Rac)-Norcantharidin ((Rac)-NCTD) is the isoform of Norcantharidin, which is a synthetic and demethylated anticancer agent derived from Cantharidin (HY-N0209). Norcantharidin has lighter side effects and stronger bioactivity than Cantharidin. And Norcantharidin inhibits cell proliferation, migration and metastasis, and causes apoptosis and autophagy <sup>[1][2]</sup> .
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### REFERENCES

[1]. Pan MS, et al. Insight into norcantharidin, a small-molecule synthetic compound with potential multi-target anticancer activities. Chin Med. 2020 May 29;15:55.

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

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