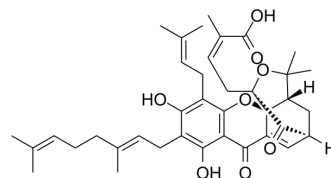


Gambogenic acid

Cat. No.:	HY-N5024
CAS No.:	173932-75-7
Molecular Formula:	C ₃₈ H ₄₆ O ₈
Molecular Weight:	630.77
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (158.54 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.5854 mL	7.9268 mL	15.8536 mL
				5 mM	0.3171 mL	1.5854 mL	3.1707 mL
				10 mM	0.1585 mL	0.7927 mL	1.5854 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: ≥ 4 mg/mL (6.34 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Gambogenic acid is an active ingredient in gamboge, with anticancer activity. Gambogenic acid acts as an effective inhibitor of EZH2, specifically and covalently binds to Cys668 within the EZH2-SET domain, and induces EZH2 ubiquitination ^[1] .
IC ₅₀ & Target	EZH2

CUSTOMER VALIDATION

- Phytomedicine. 11 August 2022, 154390.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wang X, et al. A covalently bound inhibitor triggers EZH2 degradation through CHIP-mediated ubiquitination. EMBO J. 2017 May 2;36(9):1243-1260.

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

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