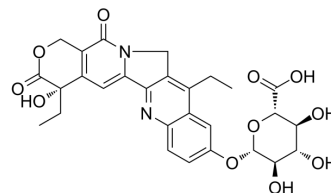


SN-38 glucuronide

Cat. No.:	HY-126373		
CAS No.:	121080-63-5		
Molecular Formula:	C ₂₈ H ₂₈ N ₂ O ₁₁		
Molecular Weight:	568.53		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (175.89 mM; Need ultrasonic)
 Methanol : 6.25 mg/mL (10.99 mM; ultrasonic and warming and heat to 60°C)
 H₂O : 2.5 mg/mL (4.40 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7589 mL	8.7946 mL	17.5892 mL
	5 mM	0.3518 mL	1.7589 mL	3.5178 mL
	10 mM	0.1759 mL	0.8795 mL	1.7589 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SN-38 glucuronide is an inactive metabolite of the cancer agent Irinotecan. Irinotecan is a topoisomerase I inhibitor which can be used for researching colon and rectal cancer^[1].

REFERENCES

- [1]. Pellock SJ, et al. Three structurally and functionally distinct β-glucuronidases from the human gut microbe Bacteroides uniformis. J Biol Chem. 2018;293(48):18559-18573.

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

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