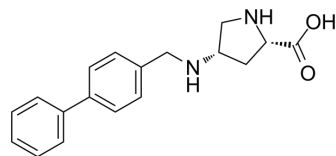


SN40

Cat. No.:	HY-146241
CAS No.:	2768663-14-3
Molecular Formula:	C ₁₈ H ₂₀ N ₂ O ₂
Molecular Weight:	296.36
Target:	EAAT; ASCT
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (33.74 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.3743 mL	16.8714 mL	33.7427 mL
		5 mM	0.6749 mL	3.3743 mL	6.7485 mL
	10 mM	0.3374 mL	1.6871 mL	3.3743 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: 1 mg/mL (3.37 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (3.37 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 1 mg/mL (3.37 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	SN40 is a potent amino acid transport (AAT) inhibitor with K _s of 7.29 μM, 2.42 μM, 2.94 μM, 5.55 μM, 24.43 μM and 5.55 μM for rat ASCT2, human ASCT2, EAAT1, EAAT2, EAAC1 and EAAT5, respectively. SN40 can be used for researching anticancer ^[1] .			
IC ₅₀ & Target	EAAT1 2.94 μM (Ki)	EAAT2 5.55 μM (Ki)	EAAC1 24.43 μM (Ki)	EAAT5 5.55 μM (Ki)
	human ASCT2 2.42 μM (Ki)	rat ASCT2 7.29 μM (Ki)		

REFERENCES

[1]. Grewer Christof, et al. Preparation of amino acids as inhibitors of alanine serine cysteine transporter 2. World Intellectual Property Organization, WO2022087630 A1 2022-04-28

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

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