SN40 hydrochloride

Cat. No.: HY-146241B

CAS No.: 2768663-15-4

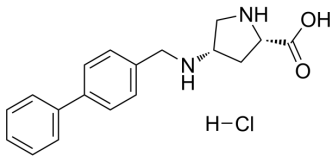
Molecular Formula: $C_{18}H_{21}ClN_2O_2$

Molecular Weight: 332.82

Target: Others

Pathway: Others

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 : 100 mg/mL (300.46 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0046 mL	15.0231 mL	30.0463 mL
	5 mM	0.6009 mL	3.0046 mL	6.0093 mL
	10 mM	0.3005 mL	1.5023 mL	3.0046 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: 2.5 mg/mL (7.51 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (7.51 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (7.51 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

SN40 hydrochloride is a potent amino acid transport (AAT) inhibitor with K_is 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 hydrochloride can be used for researching anticancer[1].

REFERENCES

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

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

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