SEC inhibitor KL-2

Cat. No.: HY-123972

CAS No.: 900308-51-2

Molecular Formula: $C_{17}H_{13}ClFNO_3$

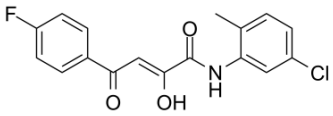
Molecular Weight: 333.74

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (74.91 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9963 mL	14.9817 mL	29.9634 mL
5 mM	0.5993 mL	2.9963 mL	5.9927 mL
10 mM	0.2996 mL	1.4982 mL	2.9963 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SEC inhibitor KL-2 (KL-2), a peptidomimetic lead compound, is a potent, selective super elongation complex (SEC) inhibitor and disrupts the interaction between the SEC scaffolding protein AFF4 and P-TEFb, resulting in impaired release of Pol II from promoter-proximal pause sites and a reduced average rate of processive transcription elongation. SEC inhibitor KL-2 exhibits an dose-dependent inhibitory effect on AFF4-CCNT1 interaction with a Ki of 1.50 μM[1].

IC_{50} & Target

SEC[1]

REFERENCES

[1]. Liang K, et al. Targeting Processive Transcription Elongation via SEC Disruption for MYC-Induced CancerTherapy. Cell. 2018 Oct 18;175(3):766-779.

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

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