hUP1-IN-1 potassium

Cat. No.: HY-W017441A

CAS No.: 118803-30-8

Molecular Formula: $C_7H_5KN_2O_2$

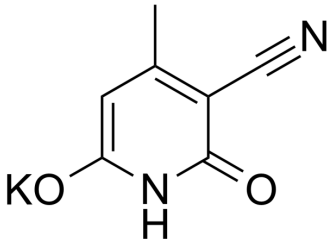
Molecular Weight: 188.23

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 (531.26 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.3126 mL	26.5632 mL	53.1265 mL
	5 mM	1.0625 mL	5.3126 mL	10.6253 mL
	10 mM	0.5313 mL	2.6563 mL	5.3126 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: 3.75 mg/mL (19.92 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 3.75 mg/mL (19.92 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 3.75 mg/mL (19.92 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

hUP1-IN-1 potassium (compound 6a) is a hUP1 inhibitor with K_{ii} and K_{is} Urd of 375 and 635 nM. hUP1-IN-1 potassium shows inhibitory activities over hUP1 catalyzed reaction with 70% at 1 μM. hUP1-IN-1 potassium can be used for the research of cancer[1].

REFERENCES

[1]. Renck D, et al. Design of novel potent inhibitors of human uridine phosphorylase-1: synthesis, inhibition studies, thermodynamics, and in vitro influence on 5-

fluorouracil cytotoxicity. J Med Chem. 2013 Nov 14;56(21):8892-902.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA