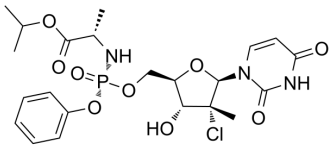
Sofosbuvir impurity K

Cat. No.:	HY-I0515
CAS No.:	1496552-51-2
Molecular Formula:	$C_{22}H_{29}ClN_3O_9P$
Molecular Weight:	545.91
Target:	HCV
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (183.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8318 mL	9.1590 mL	18.3180 mL
	5 mM	0.3664 mL	1.8318 mL	3.6636 mL
	10 mM	0.1832 mL	0.9159 mL	1.8318 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 (4.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.58 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sofosbuvir impurity K, an diastereoisomer of Sofosbuvir, is the impurity of Sofosbuvir. Sofosbuvir (PSI-7977) is an inhibitor of HCV RNA replication, demonstrates potent anti-hepatitis C virus activity.

IC_{50} & Target

HCV[1]

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

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