Fosifloxuridine nafalbenamide

 Cat. No.:
 HY-109115

 CAS No.:
 1332837-31-6

 Molecular Formula:
 $C_{29}H_{29}FN_3O_9P$

 Molecular Weight:
 613.53

Target: Thymidylate Synthase

Pathway: Apoptosis

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 (162.99 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.6299 mL	8.1496 mL	16.2991 mL
	5 mM	0.3260 mL	1.6299 mL	3.2598 mL
	10 mM	0.1630 mL	0.8150 mL	1.6299 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 (4.07 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution

BIOLOGICAL ACTIVITY

(HMGB1)[1].

Description	Fosifloxuridine nafalbenamide (NUC-3373), a pyrimidine nucleotide analogue, is a Thymidylate synthase inhibitor. Fosifloxuridine nafalbenamide has the potential to evoke a host immune response and enhance immunoresearch ^{[1][2]} .
In Vitro	Fosifloxuridine nafalbenamide induces the release of damage-associated molecular patterns (DAMPs), with increased expression of calreticulin (CRT) at the cell surface and concomitant loss of nuclear nuclear high mobility group box protein 1

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	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Fosifloxuridine nafalbenamide exhibits anti-cancer activity in HT-29 nude mouse xenograft models ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fiona G. McKissock, et al. Abstract 1848: NUC-3373 induces ER stress and the release of damage associated molecular patterns in colorectal cancer cells. Cancer Res August 15 2020 (80) (16 Supplement) 1848.

[2]. Essam A. Ghazaly, et al. Abstract B46: NUC-3373: A novel pyrimidine nucleotide analogue that overcomes key cancer drug resistance limiting patient survival. Mol Cancer Ther December 1 2015 (14) (12 Supplement 2) B46.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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