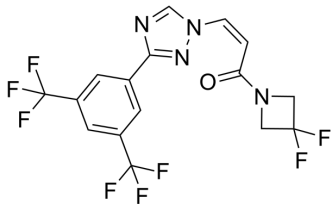
KPT-276

Cat. No.:	HY-17539
CAS No.:	1421919-75-6
Molecular Formula:	$C_{16}H_{10}F_8N_4O$
Molecular Weight:	426.26
Target:	CRM1
Pathway:	Membrane Transporter/Ion Channel
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 : 20 mg/mL (46.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3460 mL	11.7299 mL	23.4599 mL
	5 mM	0.4692 mL	2.3460 mL	4.6920 mL
	10 mM	0.2346 mL	1.1730 mL	2.3460 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 mg/mL (4.69 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2 mg/mL (4.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PKT-276, an analogue of PKT-185, is an oral bioavailable and selective inhibitor of nuclear output (SINE). PKT-276 is also a CRM1 antagonist that irreversibly binds to and blocks the function of CRM1[1].

REFERENCES

[1]. Ranganathan P, et al. Preclinical activity of a novel CRM1 inhibitor in acute myeloid leukemia. Blood. 2012 Aug 30;120(9):1765-73.

[2]. Zhang K, et al. Novel selective inhibitors of nuclear export CRM1 antagonists for therapy in mantle cell lymphoma. Exp Hematol. 2013 Jan;41(1):67-78.e4.

[3]. Schmidt J, et al. Genome-wide studies in multiple myeloma identify XPO1/CRM1 as a critical target validated using the selective nuclear export inhibitor KPT-276. Leukemia. 2013 Dec;27(12):2357-65.

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