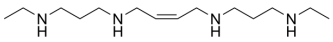
PG-11047

Cat. No.:	HY-16395
CAS No.:	308145-19-9
Molecular Formula:	$C_{14}H_{32}N_4$
Molecular Weight:	256.43
Target:	Others
Pathway:	Others

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (389.97 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8997 mL	19.4985 mL	38.9970 mL
	5 mM	0.7799 mL	3.8997 mL	7.7994 mL
	10 mM	0.3900 mL	1.9498 mL	3.8997 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 (9.75 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (9.75 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (9.75 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

PG-11047 (CGC-11047) is a polyamine analogue. PG-11047 can be used for the research of breast cancer[1].

In Vitro

PG-11047 (13 nM-5 mM; 72 h) inhibit growth of members of the panel of breast cell lines varied over a wide range, with basal-like cell lines being inhibited at lower concentrations than the luminal cell lines[1].

PG-11047 (0.3, 10, 300 μM; 48 h, 72 h) shows a significant decrease in S phase fraction at doses that produced little apoptosis [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cycle Analysis[1]

Cell Line:	Breast cancer cell lines
Concentration:	0.3, 10, 300 μM
Incubation Time:	48 h, 72 h
Result:	Significant decreased the fraction of cells in S-phase with increasing doses.

Apoptosis Analysis[1]

Cell Line:	Breast cancer cell lines
Concentration:	0.3, 10, 300 μM
Incubation Time:	48 h, 72 h
Result:	Induced apoptosis at high concentrations.

REFERENCES

[1]. Wen-Lin Kuo, et al. A systems analysis of the chemosensitivity of breast cancer cells to the polyamine analogue PG-11047. BMC Med. 2009 Dec 14;7:77.

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