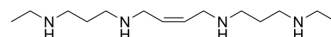


## PG-11047

<b>Cat. No.:</b>	HY-16395		
<b>CAS No.:</b>	308145-19-9		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>32</sub> N <sub>4</sub>		
<b>Molecular Weight:</b>	256.43		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	PG-11047 (CGC-11047) is a polyamine analogue. PG-11047 can be used for the research of breast cancer <sup>[1]</sup> .																
<b>In Vitro</b>	<p>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<sup>[1]</sup>.</p> <p>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<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cycle Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Breast cancer cell lines</td> </tr> <tr> <td>Concentration:</td> <td>0.3, 10, 300 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h, 72 h</td> </tr> <tr> <td>Result:</td> <td>Significant decreased the fraction of cells in S-phase with increasing doses.</td> </tr> </table> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Breast cancer cell lines</td> </tr> <tr> <td>Concentration:</td> <td>0.3, 10, 300 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h, 72 h</td> </tr> <tr> <td>Result:</td> <td>Induced apoptosis at high concentrations.</td> </tr> </table>	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.	Cell Line:	Breast cancer cell lines	Concentration:	0.3, 10, 300 μM	Incubation Time:	48 h, 72 h	Result:	Induced apoptosis at high concentrations.
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### 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.

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

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