

Scospondistatin

Cat. No.:	HY-P3995
CAS No.:	929555-18-0
Molecular Formula:	C ₈₁ H ₁₂₇ N ₂₇ O ₃₀ S ₂
Molecular Weight:	2023.17
Sequence Shortening:	GPWEDCSVSCGGGQLRSR
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Scospondistatin is an anti-angiogenic peptide that can inhibit proliferation and migration of human umbilical vein endothelial cells in vitro ^[1] .																
In Vitro	<p>Scospondistatin (0.01-40 µg/mL; 3 d) inhibits human umbilical vein endothelial cells (HUVECs) proliferation in a dose-dependent manner^[1].</p> <p>Scospondistatin (30 µg/mL; 20 h) significantly inhibits the migration of HUVECs in the presence of VEGF^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HUVECs</td> </tr> <tr> <td>Concentration:</td> <td>0.01, 0.1, 1, 10, 20, 30 and 40 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>3 days</td> </tr> <tr> <td>Result:</td> <td>Showed a monotonic dose response, with the anti-proliferative activity increasing with increasing the peptide concentration.</td> </tr> </table> <p>Cell Migration Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HUVECs</td> </tr> <tr> <td>Concentration:</td> <td>1, 10 and 30 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>20 h</td> </tr> <tr> <td>Result:</td> <td>Significantly inhibited the migration of HUVECs in the presence of VEGF at 30 µg/mL.</td> </tr> </table>	Cell Line:	HUVECs	Concentration:	0.01, 0.1, 1, 10, 20, 30 and 40 µg/mL	Incubation Time:	3 days	Result:	Showed a monotonic dose response, with the anti-proliferative activity increasing with increasing the peptide concentration.	Cell Line:	HUVECs	Concentration:	1, 10 and 30 µg/mL	Incubation Time:	20 h	Result:	Significantly inhibited the migration of HUVECs in the presence of VEGF at 30 µg/mL.
Cell Line:	HUVECs																
Concentration:	0.01, 0.1, 1, 10, 20, 30 and 40 µg/mL																
Incubation Time:	3 days																
Result:	Showed a monotonic dose response, with the anti-proliferative activity increasing with increasing the peptide concentration.																
Cell Line:	HUVECs																
Concentration:	1, 10 and 30 µg/mL																
Incubation Time:	20 h																
Result:	Significantly inhibited the migration of HUVECs in the presence of VEGF at 30 µg/mL.																

REFERENCES

[1]. Karagiannis ED, et al. Anti-angiogenic peptides identified in thrombospondin type I domains. *Biochem Biophys Res Commun.* 2007 Jul 20;359(1):63-9.

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

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