

CAM741

Cat. No.:	HY-150093
CAS No.:	177586-74-2
Molecular Formula:	C ₅₆ H ₉₁ N ₇ O ₁₁
Molecular Weight:	1038.36
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	CAM741 is a selective VCAM-1 translocation inhibitor. CAM741 selectively inhibits VCAM-1 expression by inhibiting its co-translational translocation within the lumen of the endoplasmic reticulum (ER). CAM741 can be used as a molecular tool and can also be used in the research of chronic inflammation and cancer ^{[1][2]} .								
In Vitro	<p>CAM741 (5, 10, 50, 100 nM; 24 h) dose-dependently inhibits VCAM1 glycoprotein expression in transiently transfected HEK-293 cells^[1].</p> <p>CAM741 (10, 33, 100, 333 nM; 24 h) dose-dependently inhibits cotranslational translocation of VCAM1^[1]. CAM741 inhibits VCAM1 translocation at a post-targeting step and enhances interaction of the VCAM1 nascent chains with Sec61β. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK-293 cells</td> </tr> <tr> <td>Concentration:</td> <td>5, 10, 50, 100 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited VCAM1 glycoprotein expression in a dose-dependent manner.</td> </tr> </table>	Cell Line:	HEK-293 cells	Concentration:	5, 10, 50, 100 nM	Incubation Time:	24 h	Result:	Inhibited VCAM1 glycoprotein expression in a dose-dependent manner.
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REFERENCES

[1]. Besemer J, et al. Selective inhibition of cotranslational translocation of vascular cell adhesion molecule 1. *Nature*. 2005 Jul 14;436(7048):290-3.

[2]. Eva Pauwels, et al. Inhibitors of the Sec61 Complex and Novel High Throughput Screening Strategies to Target the Protein Translocation Pathway. *Int J Mol Sci* 2021, 22(21), 12007.

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

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