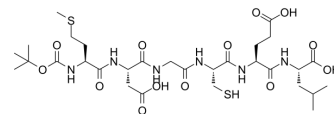


Box5

Cat. No.:	HY-123071
CAS No.:	1206604-29-6
Molecular Formula:	C ₃₀ H ₅₀ N ₆ O ₁₃ S ₂
Molecular Weight:	766.88
Sequence:	{t-Boc}-Met-Asp-Gly-Cys-Glu-Leu
Sequence Shortening:	{t-Boc}-MDGCEL
Target:	Wnt
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Box5 is a potent Wnt5a antagonist. Box5 inhibits Wnt5a signaling and inhibits Wnt5a-mediated Ca ²⁺ release. Box5 inhibits cell migration. Box5 has the potential for the research of melanoma ^[1] .								
IC₅₀ & Target	Wnt5a ^[1]								
In Vitro	<p>Box5 (100 μM) decreases the expression of rWnt5a (0.1 μg/mL) stimulated p-MARCKS in A2058 cells^[1]. 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>A2058 cells</td> </tr> <tr> <td>Concentration:</td> <td>100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>Overnight</td> </tr> <tr> <td>Result:</td> <td>Decreased the expression of rWnt5a (0.1 μg/mL) stimulated p-MARCKS.</td> </tr> </table>	Cell Line:	A2058 cells	Concentration:	100 μM	Incubation Time:	Overnight	Result:	Decreased the expression of rWnt5a (0.1 μg/mL) stimulated p-MARCKS.
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Concentration:	100 μM								
Incubation Time:	Overnight								
Result:	Decreased the expression of rWnt5a (0.1 μg/mL) stimulated p-MARCKS.								

REFERENCES

[1]. Jenei V, et al. A t-butyloxycarbonyl-modified Wnt5a-derived hexapeptide functions as a potent antagonist of Wnt5a-dependent melanoma cell invasion. Proc Natl Acad Sci U S A. 2009 Nov 17;106(46):19473-8.

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

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