

Protein Kinase C (530-558)

Cat. No.:	HY-P1288
CAS No.:	122613-29-0
Molecular Formula:	C ₁₄₈ H ₂₂₁ N ₃₅ O ₅₀ S ₂
Molecular Weight:	3354.67
Sequence Shortening:	LLYEMLAGQAPFEGEDEDLFSIMEHNV-NH2
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Protein Kinase C (530-558), a peptide fragment of protein kinase C (PKC), is a potent PKC activator. Protein Kinase C (530-558) significantly inhibits osteoclastic bone resorption ^[1] .								
In Vitro	<p>Protein Kinase C (530-558) (1 nM-1 μM, 24 h) causes a dose-responsive inhibition of bone resorption, which is accompanied by a rapid and distinctive change in osteoclast morphology^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Osteoclast cell</td> </tr> <tr> <td>Concentration:</td> <td>1 nM, 10 nM, 100 nM, 1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Showed a dose-responsive, marked inhibition of bone resorption was observed between 10 nM and 1 μM. At 1 μM, resorption was inhibited by more than 87 %.</td> </tr> </table>	Cell Line:	Osteoclast cell	Concentration:	1 nM, 10 nM, 100 nM, 1 μM	Incubation Time:	24 h	Result:	Showed a dose-responsive, marked inhibition of bone resorption was observed between 10 nM and 1 μM. At 1 μM, resorption was inhibited by more than 87 %.
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REFERENCES

[1]. Moonga BS, et al. Effects of peptide fragments of protein kinase C on isolated rat osteoclasts. *Exp Physiol*. 1998 Nov;83(6):717-25.

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

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