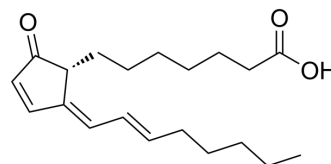


15-Deoxy- Δ 12,14-prostaglandin A1

Cat. No.:	HY-118101
CAS No.:	573951-20-9
Molecular Formula:	C ₂₀ H ₃₀ O ₃
Molecular Weight:	318.45
Target:	Apoptosis; NF- κ B
Pathway:	Apoptosis; NF- κ B
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	15-Deoxy- Δ 12,14-prostaglandin A1 is a deoxyanalog of prostaglandins that inhibits NF- κ B signaling and induces apoptosis. 15-Deoxy- Δ 12,14-prostaglandin A1 inhibits TNF- α -induced upregulation of inflammatory endothelial cell adhesion molecule (CAM) and avoids monocyte arrest ^[1] .																
In Vitro	<p>15-Deoxy-Δ12,14-prostaglandin A1 (25, 50 μM; 2 h) inhibits TNF-α-induced IκB-α kinase (IKK) activation, IκB-α degradation, and NF-κB/p65 translocation while promoting AP-1/c-Jun phosphorylation^[1].</p> <p>15-Deoxy-Δ12,14-prostaglandin A1 (25 μM; 2 h) enhances TNF-α-induced cell death in HAEC and HUVEC^[1].</p> <p>15-Deoxy-Δ12,14-prostaglandin A1 (10 μM; 2 h) inhibits TNF-α-induced monocyte arrest^[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>HAEC and HUVEC</td> </tr> <tr> <td>Concentration:</td> <td>6.5, 12.5, 25 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 h</td> </tr> <tr> <td>Result:</td> <td>Markedly enhanced cell death induced by TNF-α.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HAEC and HUVEC</td> </tr> <tr> <td>Concentration:</td> <td>25 and 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 h</td> </tr> <tr> <td>Result:</td> <td>Prevented the TNF-α induced inhibition of IKK, the IκB-α degradation at 25 or 50 μM but not at 6.25 or 12.5 μM.</td> </tr> </table>	Cell Line:	HAEC and HUVEC	Concentration:	6.5, 12.5, 25 μ M	Incubation Time:	2 h	Result:	Markedly enhanced cell death induced by TNF- α .	Cell Line:	HAEC and HUVEC	Concentration:	25 and 50 μ M	Incubation Time:	2 h	Result:	Prevented the TNF- α induced inhibition of IKK, the I κ B- α degradation at 25 or 50 μ M but not at 6.25 or 12.5 μ M.
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REFERENCES

[1]. Zernecke A, et al. Suppression of endothelial adhesion molecule up-regulation with cyclopentenone prostaglandins is dissociated from I κ ppaB- α kinase

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

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