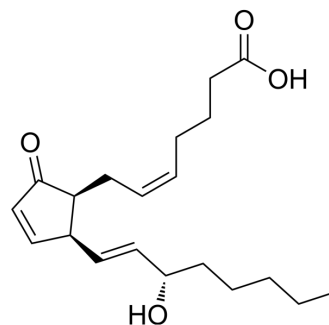


15-A2t-Isoprostane

Cat. No.:	HY-114892
CAS No.:	474391-66-7
Molecular Formula:	C ₂₀ H ₃₀ O ₄
Molecular Weight:	334.45
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	15-A2t-Isoprostane (8-iso Prostaglandin A2) is an isoprostaglandin produced by the non-enzymatic oxidation of arachidonic acid ^{[1][2][3]} .
In Vitro	15-A2t-Isoprostane (10, 30 μM, 3 h) enhances glutamate-induced cytotoxicity and decreases glutathione (GSH) levels in HT22 hippocampus cells ^[2] . 15-A2t-Isoprostane (10 μM, 24 h) inhibits VEGF induced human coronary endothelial cell migration and tubule formation ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Chen Y, et al. Formation of reactive cyclopentenone compounds in vivo as products of the isoprostane pathway. *J Biol Chem*. 1999 Apr 16;274(16):10863-8.
- [2]. Musiek ES, et al. Cyclopentenone isoprostanes are novel bioactive products of lipid oxidation which enhance neurodegeneration. *J Neurochem*. 2006 Jun;97(5):1301-13.
- [3]. Benndorf RA, et al. Isoprostanes inhibit vascular endothelial growth factor-induced endothelial cell migration, tube formation, and cardiac vessel sprouting in vitro, as well as angiogenesis in vivo via activation of the thromboxane A(2) receptor: a potential link between oxidative stress and impaired angiogenesis. *Circ Res*. 2008 Oct 24;103(9):1037-46.

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

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