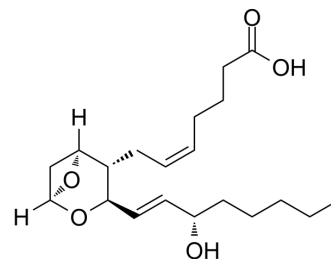


Thromboxane A2

Cat. No.:	HY-113350
CAS No.:	57576-52-0
Molecular Formula:	C ₂₀ H ₃₂ O ₅
Molecular Weight:	352.47
Target:	Endogenous Metabolite; Prostaglandin Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thromboxane A2 (TXA2) is a prostanoid mediator produced by the metabolism of Arachidonic acid (HY-109590) through the cyclooxygenase pathway. Thromboxane A2 activates the thromboxane-prostanoid (TP) receptors. Thromboxane A2 is a potent vasoconstrictor eicosanoid. Thromboxane A2 (TXA2) leads to potent vasoconstriction by stimulation of smooth muscle cells. Thromboxane A2 acts as a tonic immunoregulator to regulate adaptive immune responses ^{[1][2][3]} .	
IC₅₀ & Target	Human Endogenous Metabolite	TP
In Vitro	Thromboxane A2 (300 nM, 12 h) regulates endothelial cell migration, angiogenesis and tumor metastasis ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Matthew A Sparks, et al. Thromboxane receptors in smooth muscle promote hypertension, vascular remodeling, and sudden death. *Hypertension*. 2013 Jan;61(1):166-73.
- [2]. Federica Moalli, et al. Thromboxane A2 acts as tonic immunoregulator by preferential disruption of low-avidity CD4+ T cell-dendritic cell interactions. *J Exp Med*. 2014 Dec 15;211(13):2507-17.
- [3]. Nie D, et al. Thromboxane A(2) regulation of endothelial cell migration, angiogenesis, and tumor metastasis. *Biochem Biophys Res Commun*. 2000 Jan 7;267(1):245-51.

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

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