

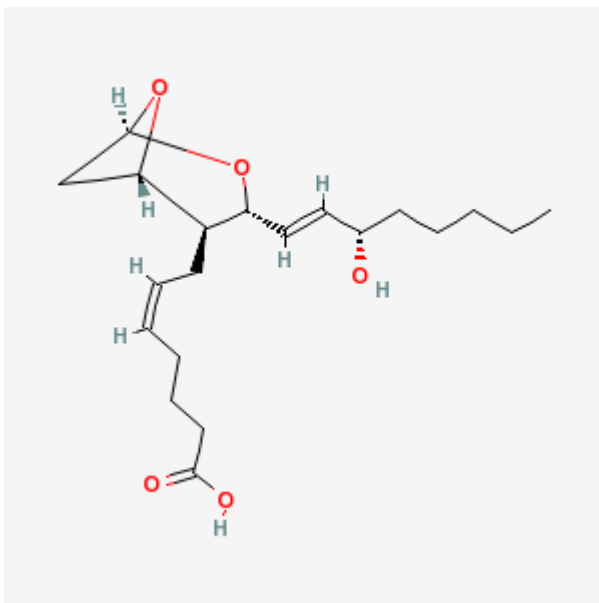
Thromboxane

One of lipid in a group of eicosanoids. It is involved in platelet aggregation.

Thromboxane A2

An unstable intermediate between the prostaglandin endoperoxides and thromboxane B2. The compound has a bicyclic oxaneoxetane structure. It is a potent inducer of platelet aggregation and causes vasoconstriction. It is the principal component of rabbit aorta contracting substance (RCS).

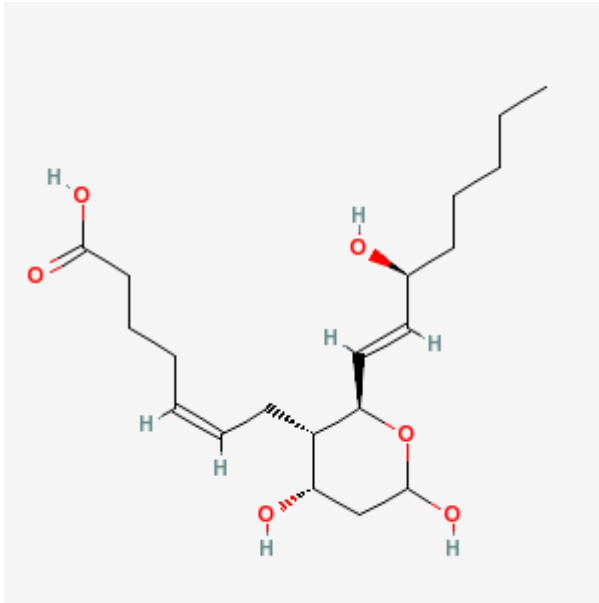
Name	Thromboxane A2 ¹⁾
	TXA ₂ , TXA-2
Molecular Weight	352.46508 g/mol
Molecular Formula	C ₂₀ H ₃₂ O ₅
XLogP	4.2



Thromboxane B2

A stable, physiologically active compound formed in vivo from the prostaglandin endoperoxides. It is important in the platelet-release reaction (release of ADP and serotonin).

Name	Thromboxane B2 ²⁾
	TXB ₂ , TXB-2
Molecular Weight	370.48036 g/mol
Molecular Formula	C ₂₀ H ₃₄ O ₆
XLogP	3.2



Reference

Thromboxanes: a new group of biologically active compounds derived from prostaglandin endoperoxides.

Hamberg M, Svensson J, Samuelsson B

Proc Natl Acad Sci U S A 72p2994-8(1975 Aug)

1)

(Z)-7-[(1S,2S,3R,5S)-3-[(E,3S)-3-hydroxyoct-1-enyl]-4,7-dioxabicyclo[3.1.1] heptan-2-yl]hept-5-enoic acid

2)

(Z)-7-[(2R,3S,4S)-4,6-dihydroxy-2-[(E,3S)-3-hydroxyoct-1-enyl]oxan-3-yl]hept-5-enoic acid

From:

<https://bio.edu-wiki.org/> - BioWiki

Permanent link:

<https://bio.edu-wiki.org/en/thromboxane>

Last update: 2013/06/09 10:10

