



# SZABO SCANDIC

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## Produktinformation



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# Product Information



## Thromboxane B<sub>2</sub>-biotin

Item No. 9002298

**Formal Name:** (Z)-7-((2R,3S,4S)-4,6-dihydroxy-2-((S,E)-3-hydroxyoct-1-en-1-yl)tetrahydro-2H-pyran-3-yl)-N-(5-(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamido)pentyl)hept-5-enamide

**Synonym:** TXB<sub>2</sub>-biotin

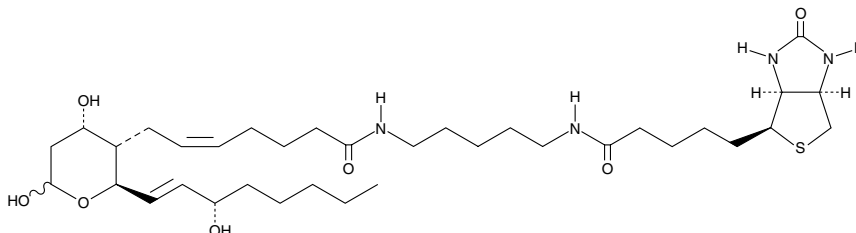
**MF:** C<sub>35</sub>H<sub>60</sub>N<sub>4</sub>O<sub>7</sub>S

**FW:** 681.0

**Purity:** ≥90%

**Stability:** ≥1 year at -20°C

**Supplied as:** A solution in ethanol



### Laboratory Procedures

For long term storage, we suggest that thromboxane B<sub>2</sub>-biotin (TXB<sub>2</sub>-biotin) be stored as supplied at -20°C. It should be stable for at least one year.

TXB<sub>2</sub>-biotin is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. TXB<sub>2</sub>-biotin is soluble in ethanol at a concentration of approximately 5 mg/ml.

TXA<sub>2</sub> is produced from arachidonic acid (Item No. 90010) by many cells and causes irreversible platelet aggregation and contraction of vascular and bronchial smooth muscle.<sup>1-3</sup> TXA<sub>2</sub> is rapidly hydrolyzed non-enzymatically to TXB<sub>2</sub> (Item No. 19030), which is then quickly metabolized to urinary metabolites for clearance by the kidneys. TXB<sub>2</sub>-biotin is an affinity probe which allows TXB<sub>2</sub> to be detected through an interaction with the biotin ligand. It was designed to allow TXB<sub>2</sub> to be detected in complexes with protein binding partners.

### References

1. Hamberg, M., Svensson, J., and Samuelsson, B. Thromboxanes: A new group of biologically active compounds derived from prostaglandin endoperoxides. *Proc. Natl. Acad. Sci. USA* **72**, 2994-2998 (1975).
2. Ellis, E.F., Oelz, O., Roberts, L.J., II, *et al.* Coronary arterial smooth muscle contraction by a substance released from platelets: Evidence that it is thromboxane A<sub>2</sub>. *Science* **193**, 1135-1137 (1976).
3. Salzman, P.M., Salmon, J.A., and Moncada, S. Prostacyclin and thromboxane A<sub>2</sub> synthesis by rabbit pulmonary artery. *J. Pharmacol. Exp. Ther.* **215**, 240-247 (1980).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/9002298](http://www.caymanchem.com/catalog/9002298)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

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