



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Expressversand

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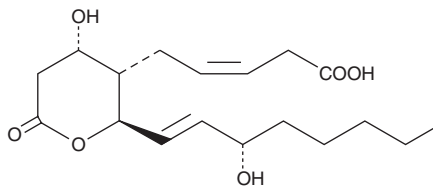
# PRODUCT INFORMATION



## 11-dehydro-2,3-dinor Thromboxane B<sub>2</sub>

Item No. 19510

**CAS Registry No.:** 79250-60-5  
**Formal Name:** 9a,15S-dihydroxy-11-oxo-2,3-dinor-thromba-5Z,13E-dien-1-oic acid  
**Synonym:** 11-dehydro-2,3-dinor TXB<sub>2</sub>  
**MF:** C<sub>18</sub>H<sub>28</sub>O<sub>6</sub>  
**FW:** 340.4  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate



### Laboratory Procedures

For long term storage, we suggest that 11-dehydro-2,3-dinor thromboxane B<sub>2</sub> (11-dehydro-2,3-dinor TXB<sub>2</sub>) be stored as supplied at -20°C. It should be stable for at least one year.

11-dehydro-2,3-dinor TXB<sub>2</sub> is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, methanol, acetone, DMSO, dimethyl formamide, or acetonitrile purged with an inert gas or nitrogen can be used. The solubility of 11-dehydro-2,3-dinor TXB<sub>2</sub> in these solvents is approximately 10 mg/ml. Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Avoid adding 11-dehydro-2,3-dinor TXB<sub>2</sub> to basic solutions (pH>7.4), since base treatment will cause the hydrolysis of the lactone function of 11-dehydro-2,3-dinor TXB<sub>2</sub>. We do not recommend storing the aqueous solution for more than one day.

### Description

11-dehydro-2,3-dinor TXB<sub>2</sub> has been identified as a TXB<sub>2</sub> (Item No. 19030) metabolite in human urine by GC/MS.<sup>1</sup> The relative abundance is only about one-tenth that of 11-dehydro TXB<sub>2</sub> (Item No. 19500), making it unlikely that 11-dehydro-2,3-dinor TXB<sub>2</sub> will be used widely as an index of TX synthesis.<sup>2,3</sup>

### References

1. Ishibashi, M., Wanatabe, K., Ishizaki, F., *et al.* Dimethylisopropylsilyl ether derivative in gas chromatography /mass spectrometry of 2,3-dinor-11-dehydrothromboxane B<sub>2</sub>. *Biol. Mass Spectrom.* **20**, 399-407 (1991).
2. Roberts II, L.J., Sweetman, B.J., and Oates, J.A. Metabolism of thromboxane B<sub>2</sub> in man. *J. Biol. Chem.* **256**, 8384-8393 (1981).
3. Dujurp, R., Chiabrande, C., Jorres, A., *et al.* Rapid, direct enzyme immunoassay of 11-keto-thromboxane B<sub>2</sub> in urine, validated by immunoaffinity/gas chromatography-mass spectrometry. *Clin. Chem.* **39**, 2470-2477 (1993).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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