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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## 11-dehydro-2,3-dinor Thromboxane B<sub>2</sub>-d<sub>9</sub>

Item No. 38254

**Formal Name:** (Z)-5-((2R,3S,4S)-4-hydroxy-2-((S,E)-3-hydroxyoct-1-en-1-yl-5,5,6,6,7,7,8,8,8-d<sub>9</sub>)-6-oxotetrahydro-2H-pyran-3-yl)pent-3-enoic acid

**Synonym:** 11-dehydro-2,3-dinor TXB<sub>2</sub>-d<sub>9</sub>

**MF:** C<sub>18</sub>H<sub>19</sub>D<sub>9</sub>O<sub>6</sub>

**FW:** 349.5

**Chemical Purity:** ≥95% (11-dehydro-2,3-dinor TXB<sub>2</sub>)

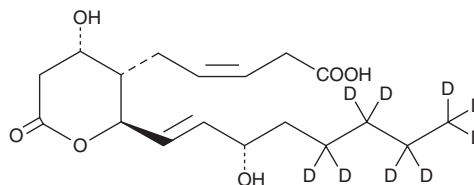
**Deuterium**

**Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>9</sub>); ≤1% d<sub>0</sub>

**Supplied as:** A solution in methyl acetate

**Storage:** -20°C

**Stability:** ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

11-dehydro-2,3-dinor Thromboxane B<sub>2</sub>-d<sub>9</sub> (11-dehydro-2,3-dinor TXB<sub>2</sub>-d<sub>9</sub>) is intended for use as an internal standard for the quantification of 11-dehydro-2,3-dinor TXB<sub>2</sub> (Item No. 19510) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

11-dehydro-2,3-dinor TXB<sub>2</sub>-d<sub>9</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, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 11-dehydro-2,3-dinor TXB<sub>2</sub>-d<sub>9</sub> in these solvents is approximately 100, 25, and 50 mg/ml, respectively.

### Description

11-dehydro-2,3-dinor TXB<sub>2</sub> is a metabolite of the TXA<sub>2</sub> inactive metabolite TXB<sub>2</sub> (Item No. 19030).<sup>1</sup> It is formed from TXB<sub>2</sub> by cytosolic aldehyde dehydrogenase (ALDH) and β-oxidation.<sup>1,2</sup> Levels of 11-dehydro-2,3-dinor TXB<sub>2</sub> are increased 5.2-fold in a surgery-induced rat model of tendon overuse.<sup>3</sup>

### References

1. Roberts, L.J., II, Sweetman, B.J., and Oates, J.A. Metabolism of thromboxane B<sub>2</sub> in Man. Identification of the major urinary metabolite. *J. Biol. Chem.* **256(16)**, 8384-8393 (1981).
2. Westlund, P., Fylling, A.C., Cederlund, E., et al. 11-Hydroxythromboxane B<sub>2</sub> dehydrogenase is identical to cytosolic aldehyde dehydrogenase. *FEBS Lett.* **345(2-3)**, 99-103 (1994).
3. Markworth, J.F., Sugg, K.B., Sarver, D.C., et al. Local shifts in inflammatory and resolving lipid mediators in response to tendon overuse. *FASEB J.* **35(6)**, e21655 (2021).

#### 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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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM