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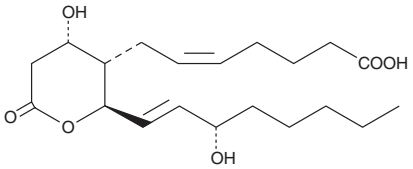
PRODUCT INFORMATION

11-dehydro Thromboxane B_2 Quant-PAK

Item No. 10006831

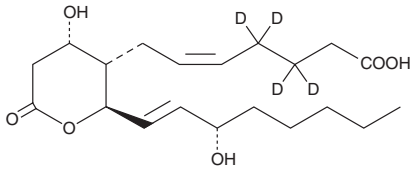
11-dehydro Thromboxane B_2

CAS Registry No.: 67910-12-7
Formal Name: 9α,15S-dihydroxy-11-oxothromba-5Z,13E-dien-1-oic acid
Synonym: 11-keto TXB_2
MF: $C_{20}H_{32}O_6$
FW: 368.5
Purity: ≥99%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



11-dehydro Thromboxane B_2-d_4

CAS Registry No.: 1240398-15-5
Formal Name: 9α,15S-dihydroxy-11-oxothromba-5Z,13E-dien-1-oic-3,3,4,4-d_4 acid
Synonym: 11-keto TXB_2-d_4
MF: $C_{20}H_{28}D_4O_6$
FW: 372.5
Chemical Purity: ≥99%
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_4); ≤1% d_0
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

This 11-dehydro thromboxane B_2 (11-dehydro TXB_2) Quant-PAK contains 50 µg of 11-dehydro TXB_2-d_4 and 2-4 mg of 11-dehydro TXB_2 (please see the vial for exact amount and concentration). For long term storage, we suggest that 11-dehydro TXB_2 and 11-dehydro TXB_2-d_4 be stored as supplied at -20°C. They should be stable for at least one year.

Both vials are supplied as solutions 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 TXB_2 and 11-dehydro TXB_2-d_4 in these solvents is approximately 100, 25, and 50 mg/ml, respectively.

11-dehydro TXB_2-d_4 contains 4 deuterium atoms at the 3, 3', 4, and 4' positions. It is intended for use as an internal standard for the quantification of 11-dehydro TXB_2 by GC- or LC-mass spectrometry. 11-dehydro TXB_2 is a urinary metabolite of TXB_2 and TXA_2. The accuracy of the sample weight in the 11-dehydro TXB_2-d_4 vial is between 5% over and 2% under the weight indicated on the vial. For better precision we have provided a precisely weighed unlabeled 11-dehydro TXB_2, with the precise weight (2-4 mg) indicated on the vial. Using this vial, the deuterated standard can be quantified by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Description

TXB_2 is released in substantial quantities from aggregating platelets and metabolized during circulation to 11-dehydro TXB_2 and 2,3-dinor TXB_2.[1] 11-dehydro TXB_2 is one of the main plasma metabolites of TXB_2 and can be used as a marker for *in vivo* TXA_2 synthesis.[1-4] The mean plasma level in human males is 0.9-4.3 pg/ml and the half life is 45-60 minutes.[2-4] Urinary concentrations of 11-dehydro TXB_2 are approximately 30-70 ng/mmole creatinine.[5,6]

References

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2. Fitzgerald, G.A., Lawson, J., Blair, I.A., *et al. Adv. Prostaglandin Thromboxane Leukotriene Res.* **15**, 87-90 (1985).
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5. Lellouche, F., Fradin, A., FitzGerald, G., *et al. Prostaglandins* **40**, 297-310 (1990).
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