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PRODUCT INFORMATION



Thromboxane B₂-d₉

Item No. 9002563

Formal Name: (Z)-7-((2R,3S,4S)-4,6-dihydroxy-2-((S,E)-3-hydroxyoct-1-en-1-yl-5,5,6,6,7,7,8,8,8-d₉) tetrahydro-2H-pyran-3-yl)hept-5-enoic acid

Synonym: TXB₂-d₉

MF: C₂₀H₂₅D₉O₆

FW: 379.5

Chemical Purity: ≥98% (Thromboxane B₂)

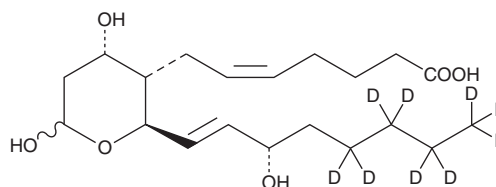
Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₉); ≤1% d₀

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥2 years



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

Laboratory Procedures

Thromboxane B₂-d₉ (TXB₂-d₉) is intended for use as an internal standard for the quantification of TXB₂ (Item No. 19030) 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).

TXB₂-d₉ is supplied as a crystalline solid. A stock solution may be made by dissolving the TXB₂-d₉ in the solvent of choice, which should be purged with an inert gas. TXB₂-d₉ is soluble in organic solvents such as ethanol, DMSO, methyl acetate, and dimethyl formamide. The solubility of TXB₂-d₉ in these solvents is approximately 100, 25, 10, and 50 mg/ml, respectively.

Description

TXB₂ is a non-enzymatically derived, stable, inactive metabolite of TXA₂, which is highly unstable.¹⁻³ Serum levels of TXB₂ positively correlate with platelet COX-1 activation.^{4,5} Urinary levels of TXB₂ reflect intrarenal TXA₂ synthesis, while its metabolites, 11-dehydro TXB₂ (Item No. 19500) and 2,3-dinor TXB₂ (Item No. 19510), reflect systemic TXA₂ secretion.^{2,6,7}

References

1. Needleman, P., Moncada, S., Bunting, S., *et al.* Identification of an enzyme in platelet microsomes which generates thromboxane A₂ from prostaglandin endoperoxides. *Nature* **261(5561)**, 558-560 (1976).
2. Patrono, C., Ciabattoni, G., Pugliese, F., *et al.* Estimated rate of thromboxane secretion into the circulation of normal humans. *J. Clin. Invest.* **77(2)**, 590-594 (1986).
3. Uyama, O., Matsumoto, M., Fujisawa, A., *et al.* Plasma concentrations of thromboxane B₂ in patients with hypertension or cerebrovascular disease. *Prostaglandins Med.* **7(3)**, 199-207 (1981).
4. Arantes, F.B.B., Menezes, F.R., Franci, A., *et al.* Influence of direct thrombin inhibitor and low molecular weight heparin on platelet function in patients with coronary artery disease: A prospective interventional trial. *Adv. Ther.* **37(1)**, 420-430 (2020).
5. Ferroni, P., Riondino, S., Vazzana, N., *et al.* Biomarkers of platelet activation in acute coronary syndromes. *Thromb. Haemost.* **108(6)**, 1109-1123 (2012).
6. Patrono, C., Ciabattoni, G., Patrignani, P., *et al.* Evidence for a renal origin of urinary thromboxane B₂ in health and disease. *Adv. Prostaglandin Thromboxane Leukot. Res.* **11**, 493-498 (1983).
7. Lawson, J.A., Patrono, C., Ciabattoni, G., *et al.* Long-lived enzymatic metabolites of thromboxane B₂ in the human circulation. *Anal. Biochem.* **155(1)**, 198-205 (1986).

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.

WARRANTY AND LIMITATION OF REMEDY

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