

Product Data Sheet

Product Name: Thromboxane B₂-d₉

Cat. No.: GC48177

Chemical Properties

Cas. No. N/A

SMILES O[C@@H]1[C@H](C/C=C\CCCC(O)=O)[C@@H](/C=C/[C@@H](O)CC([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])OC(O)C1

Formula C₂₀H₂₅D₉O₆ M.Wt 379.5

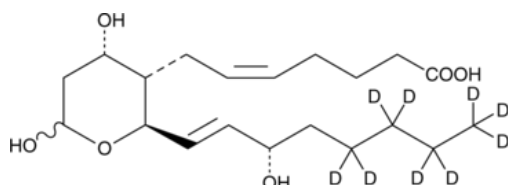
Solubility DMF: >50 mg/ml, DMSO: >25 mg/ml, Ethanol: >100 mg/ml, Methyl Acetate: 10 mg/ml, PBS (pH 7.2): >100 µg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Thromboxane B₂-d₉ (TXB₂-d₉) is intended for use as an internal standard for the quantification of TXB₂ by GC- or LC-MS. TXB₂ is a stable, biologically inert metabolite formed from the non-enzymatic hydrolysis of TXA₂, which has a half-life of about 30 seconds.¹ Urinary analysis of TXB₂ accurately reflects intrarenal TXA₂ synthesis, while measurement of 11-dehydro and 2,3-dinor thromboxane metabolites gives the best estimate of systemic TXA₂ secretion.^{2,3,4}

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)

Caution: Product has not been fully validated for medical applications. For research use only.

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2. 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.* 11493-498 (1983)

3. 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)

4. 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)

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