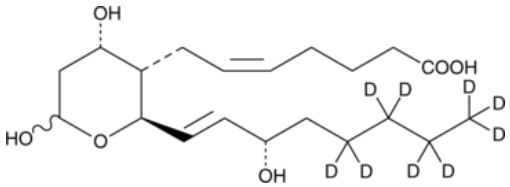
Product Data Sheet

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])[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 B_2-d_9 (TXB_2-d_9) is intended for use as an internal standard for the quantification of TXB_2 by GC- or LC-MS. TXB_2 is a stable, biologically inert metabolite formed from the non-enzymatic hydrolysis of TXA_2, which has a half-life of about 30 seconds. [1] Urinary analysis of TXB_2 accurately reflects intrarenal TXA_2 synthesis, while measurement of 11-dehydro and 2,3-dinor thromboxane metabolites gives the best estimate of systemic TXA_2 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 endoperoxidesNature261(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 diseaseAdv. 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 circulationAnal. 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 humansJ. Clin. Invest.77(2)590-594(1986)

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