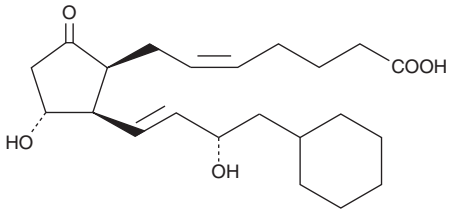
PRODUCT INFORMATION

8-*iso*-16-cyclohexyl-tetranor Prostaglandin E_2

Item No. 10009278

CAS Registry No.: 53319-30-5
Formal Name: 9-oxo-11α,15S-dihydroxy-(8β)-16-cyclohexyl-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic
Synonyms: 8-*iso*-16-cyclohexyl-tetranor PGE_2
MF: $C_{22}H_{34}O_5$
FW: 378.5
Purity: ≥97%
Supplied as: A solution in methyl acetate
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

8-*iso*-16-cyclohexyl-tetranor Prostaglandin E_2 (8-*iso*-16-cyclohexyl-tetranor PGE_2) is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the 8-*iso*-16-cyclohexyl-tetranor PGE_2 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 8-*iso*-16-cyclohexyl-tetranor PGE_2 in these solvents is approximately 50 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 8-*iso*-16-cyclohexyl-tetranor PGE_2 is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 8-*iso*-16-cyclohexyl-tetranor PGE_2 in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

8-*iso* PGE_2 is one of several isoprostanes produced from polyunsaturated fatty acids during lipid peroxidation.[1] 8-*iso*-16-cyclohexyl-tetranor PGE_2 is a synthetic analog of 8-*iso* PGE_2. There are no published studies on the pharmacological properties of 8-*iso*-16-cyclohexyl-tetranor PGE_2.

Reference

1. Morrow, J.D., Minton, T.A., Mukundan, C.R., *et al.* Free radical-induced generation of isoprostanes *in vivo*. Evidence for the formation of D-ring and E-ring isoprostanes. *J. Biol. Chem.* **269(6)**, 4317-4326 (1994).

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