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Product Information



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13,14-dihydro-15-keto Prostaglandin E₁

Item No. 13650

CAS Registry No.:	5094-14-4	
Formal Name:	9,15-dioxo-11α-hydroxy-prostan-1-oic acid	0
Synonym:	13,14-dihydro-15-keto PGE ₁	ب ب
MF:	C ₂₀ H ₃₄ O ₅	$\langle \rangle$
FW:	354.5	
Purity:	≥98%	но
Stability:	≥1 year at -20°C	ПО
Supplied as:	A solution in methyl acetate	

Laboratory Procedures

For long term storage, we suggest that 13,14-dihydro-15-keto prostaglandin E1 (13,14-dihydro-15-keto PGE1) be stored as supplied at -20°C. It should be stable for at least one year.

13,14-dihydro-15-keto PGE1 is supplied as a solution in methyl acetate. If methyl acetate is undesirable, evaporate the methyl acetate with an inert gas and add the solvent of choice. 13,14-dihydro-15-keto PGE1 is soluble in organic solvents such as ethanol, DMSO, and DMF. The solubility of 13,14-dihydro-15-keto PGE1 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. If an organic solvent-free solution of 13,14-dihydro-15-keto PGE₁ is needed, the methyl acetate can be evaporated under a gentle stream of nitrogen and the neat oil dissolved in the buffer of choice. The solubility of 13,14-dihydro-15-keto PGE1 is approximately 1.67 mg/ml in PBS (pH 7.2). Avoid adding 13,14-dihydro-15-keto PGE₁ to basic solutions (pH > 7.4), since base treatment will degrade 13,14-dihydro-15-keto PGE₁ to PGA and PGB compounds and/or Bicyclo-PGE1. Also, ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

13,14-dihydro-15-keto PGE_1 is a metabolite of PGE_1 with much reduced biological activity.¹⁻³ Steady state plasma concentrations are about 10 pg/ml.¹ 13,14-dihydro-15-keto PGE₁ is a weak inhibitor of ADP-induced platelet aggregation in human PRP and washed platelets with IC₅₀ values of 54 and 200 µM, respectively, compared to PGE₁ which has an IC₅₀ value of 40 nM.⁴

References

- 1. Leonhardt, A., Krauss, M., Gieler, U., et al. In vivo formation of prostaglandin E1 and prostaglandin E2 in atopic dermatitis. Br. J. Dermatol. 136, 337-340 (1997).
- 2. Hamberg, M. and Samuelsson, B. On the metabolism of prostaglandins E1 and E2 in man. J. Biol. Chem. 246, 6713-6721 (1971).
- 3. Peskar, B.A., Cawello, W., Rogatti, W., et al. On the metabolism of prostaglandin E1 administered intravenously to human volunteers. J. Physiol. Pharmacol. 42, 327-331 (1991).
- Kobzar, G., Mardla, V., Järving, I., et al. Antiaggregating potency of E-type prostaglandins in human and rabbit 4. platelets. Proc. Estonian Acad. Sci. Chem. 40, 179-180 (1991).

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS, NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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