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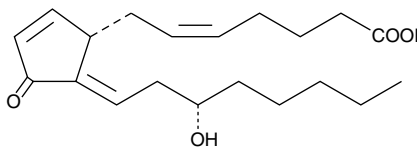
Product Information



Δ^{12} -Prostaglandin J₂

Item No. 18550

CAS Registry No.: 87893-54-7
Formal Name: 11-oxo-15S-hydroxy-prosta-5Z,9,12E-trien-1-oic acid
Synonym: Δ^{12} -PGJ₂
MF: C₂₀H₃₀O₄
FW: 334.5
Purity: ≥95%
Stability: ≥1 year at -80°C
Supplied as: A solution in methyl acetate
UV/Vis: λ_{max}: 244 nm ε: 17,000



Laboratory Procedures

For long term storage, we suggest that Δ^{12} -prostaglandin J₂ (Δ^{12} -PGJ₂) be stored as supplied at -80°C. It should be stable for at least one year.

Δ^{12} -PGJ₂ is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO, dimethyl formamide, or acetonitrile purged with an inert gas or nitrogen can be used. The solubility of Δ^{12} -PGJ₂ in these solvents is approximately 100 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. The solubility of Δ^{12} -PGJ₂ in phosphate buffered saline (pH 7.2) is approximately 2.7 mg/ml. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Avoid adding Δ^{12} -PGJ₂ to acidic buffers as acid treatment will convert the Δ^{12} -PGJ₂ to the 15-deoxy compound. Also, avoid basic solutions (pH > 7.4), since base treatment will cause the Δ^{12} -PGJ₂ to isomerize. Store aqueous solutions of Δ^{12} -PGJ₂ on ice and use within 12 hours. Although aqueous solutions of Δ^{12} -PGJ₂ may be stable for more than 12 hours, we recommend using a fresh preparation each day.

Δ^{12} -PGJ₂ is a decomposition product of PGD₂ in aqueous media in the presence of albumin.¹ It has antitumor and antiviral activity, inhibiting growth of cultured L1210 cells at with an IC₅₀ value of 0.7 μg/ml.² Δ^{12} -PGJ₂ is present in normal human urine with a 24 hour excretion rate of 50-150 ng.³ It is also a moderately potent PPARγ ligand.⁴

References

1. Fitzpatrick, F.A. and Wynalda, M.A. Albumin-catalyzed metabolism of prostaglandin D₂. Identification of products formed *in vitro*. *J. Biol. Chem.* **258**, 11713-11718 (1983).
2. Kato, T., Fukushima, M., Kurozumi, S., *et al.* Antitumor activity of Δ^7 -prostaglandin A₁ and Δ^{12} -prostaglandin J₂ *in vitro* and *in vivo*. *Cancer Res.* **46**, 3538-3542 (1986).
3. Hirata, Y., Hayashi, H., Ito, S., *et al.* Occurrence of 9-deoxy- Δ^9 , Δ^{12} -13,14-dihydroprostaglandin D₂ in human urine. *J. Biol. Chem.* **263**, 16619-16625 (1988).
4. Forman, B.M., Tontonoz, P., Chen, J., *et al.* 15-Deoxy- $\Delta^{12,14}$ -prostaglandin J₂ is a ligand for the adipocyte determination factor PPARγ *Cell* **83**, 803-812 (1995).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/18550

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

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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