

Certificate of Analysis

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Product Name: 15-deoxy- Δ -^{12,14}-Prostaglandin J₂

Catalog No.: 2306

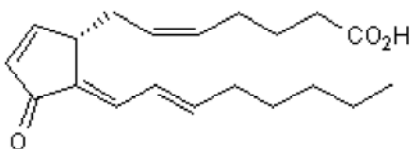
Batch No.: 5

CAS Number: 87893-55-8

IUPAC Name: (5Z,12E,14E)-11-Oxo-prosta-5,9,12,14-tetraen-1-oic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₂₈ O ₃
Batch Molecular Weight:	316.44
Physical Appearance:	Colourless liquid
Solubility:	Soluble in Methyl acetate (supplied pre-dissolved - 1mg/ml)
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.1% purity
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Catalog No.: 2306

Batch No.: 5

CAS Number: 87893-55-8

IUPAC Name: (5Z,12E,14E)-11-Oxo-prosta-5,9,12,14-tetraen-1-oic acid

Description:

Selective PPAR γ agonist that induces adipocyte differentiation in C3H10Y1/2 fibroblasts (EC₅₀ = 7 μ M).

Physical and Chemical Properties:

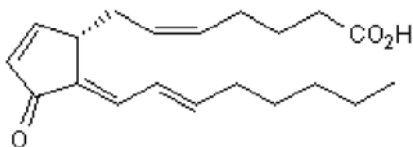
Batch Molecular Formula: C₂₀H₂₈O₃

Batch Molecular Weight: 316.44

Physical Appearance: Colourless liquid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in Methyl acetate (supplied pre-dissolved - 1mg/ml)

This compound is supplied pre-dissolved in Methyl acetate (1mg/ml). To change the solvent, evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the chosen solvent (preferably purged with nitrogen beforehand). The solubility of 15-deoxy-D-12,14-Prostaglandin J₂ is greater than 25mM in both DMSO and Ethanol. Aqueous solutions of this product should be stored on ice and used within 12 hours of preparation.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Forman *et al* (1995) 15-Deoxy- $\Delta^{12,14}$ -prostaglandin J₂ is a ligand for the adipocyte determination factor PPAR γ . Cell **83** 803. PMID: 8521497.

Kliwer *et al* (1995) A prostaglandin J₂ metabolite binds peroxisome proliferator-activated receptor γ and promotes adipocyte differentiation. Cell **83** 813. PMID: 8521498.

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