**Product Information**

**13,14-dihydro-15-keto Prostaglandin J2**  
*Item No. 10008840*

**Informative Data**

**Formal Name:** 11,15-dioxo-prosta-5Z,9-en-1-oic acid  
**MF:** C<sub>20</sub>H<sub>30</sub>O<sub>4</sub>  
**FW:** 334.5  
**Purity:** ≥97%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate

**Laboratory Procedures**

For long term storage, we suggest that 13,14-dihydro-15-keto prostaglandin J<sub>2</sub> (13,14-dihydro-15-keto PGJ<sub>2</sub>) be stored as supplied at -20°C. It should be stable for at least one year.  
13,14-dihydro-15-keto PGJ<sub>2</sub> 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 13,14-dihydro-15-keto PGJ<sub>2</sub> 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 13,14-dihydro-15-keto PGJ<sub>2</sub> is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 13,14-dihydro-15-keto PGJ<sub>2</sub> in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Various biological properties exist for both PGJ<sub>2</sub> and its metabolites such as inhibition of platelet aggregation, antitumor, and antiviral activity.1,2 13,14-dihydro-15-keto PGJ<sub>2</sub> is the dehydration product of 13,14-dihydro-15-keto PGD<sub>2</sub> and is a presumed metabolite of PGJ<sub>2</sub> via the 15-hydroxy PG dehydrogenase pathway. There are no published studies of the pharmacological properties or the formation of 13,14-dihydro-15-keto PGJ<sub>2</sub> *in vivo*.

**References**


**Related Products**

For a list of related products please visit: [www.caymanchem.com/catalog/10008840](http://www.caymanchem.com/catalog/10008840)

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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.

**Safery 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 Safety Data Sheet, which has been sent to your institution.

**Warranty and Limitation of Remedy**

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