

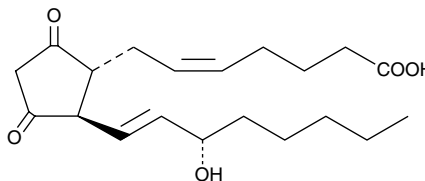
# Product Information



## Prostaglandin K<sub>2</sub>

Item No. 18900

**CAS Registry No.:** 275816-51-8  
**Formal Name:** 9,11-dioxo-15S-hydroxy-prosta-5Z,13E-dien-1-oic acid  
**Synonym:** PGK<sub>2</sub>  
**MF:** C<sub>20</sub>H<sub>30</sub>O<sub>5</sub>  
**FW:** 350.5  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate  
**UV/Vis:** λ<sub>max</sub>: 245 nm



### Laboratory Procedures

For long term storage, we suggest that prostaglandin K<sub>2</sub> (PGK<sub>2</sub>) be stored as supplied at -20°C. It should be stable for at least one year.

PGK<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 DMSO, dimethyl formamide, or acetonitrile purged with an inert gas or nitrogen can be used. The solubility of PGK<sub>2</sub> in these solvents is approximately 10 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. We do not recommend storing the aqueous solution for more than one day.

PGK<sub>2</sub> is the 9,11-diketone formed by the oxidation of PGE<sub>2</sub> or PGD<sub>2</sub>. Whether this compound exists biologically is uncertain; it is known to be resistant to metabolism by 15-hydroxy PGDH *in vitro*.<sup>1</sup>

### Reference

1. Ohno, H., Morikawa, Y., and Hirata, F. Studies on 15-hydroxyprostaglandin dehydrogenase with various prostaglandin analogues. *J. Biochem.* **84**, 1485-1494 (1978).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/18900](http://www.caymanchem.com/catalog/18900)

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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.**

#### 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 Safety Data Sheet, which has been sent via email to your institution.

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