



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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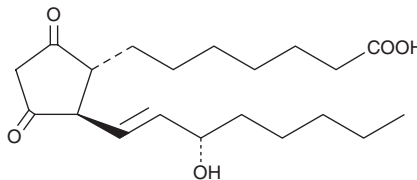
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Prostaglandin K<sub>1</sub> Item No. 18800

**CAS Registry No.:** 69413-73-6  
**Formal Name:** 9,11-dioxo-15S-hydroxy-prost-13E-en-1-oic acid  
**Synonym:** PGK<sub>1</sub>  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>5</sub>  
**FW:** 352.5  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 245 nm  
**Supplied as:** A solution in methyl acetate  
**Storage:** -20°C  
**Stability:** ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Prostaglandin K<sub>1</sub> (PGK<sub>1</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 PGK<sub>1</sub> in these solvents is approximately 75, 50, and 100 mg/ml, respectively.

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 PGK<sub>1</sub> is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of PGK<sub>1</sub> in PBS (pH 7.2) is approximately 2.7 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

PGK<sub>1</sub> is a 9,11-diketo analog of PGE<sub>1</sub> (Item No. 13010) or PGD<sub>1</sub> (Item No. 12000). It is a PGE<sub>2</sub> receptor subtype EP<sub>1</sub> agonist that has 387-fold reduced potency compared to PGE<sub>2</sub> (Item No. 14010).<sup>1</sup>

### Reference

1. Ungrin, M.D., Carrière, M.C., Denis, D., *et al.* Key structural features of prostaglandin E<sub>2</sub> and prostanoid analogs involved in binding and activation of the human EP<sub>1</sub> prostanoid receptor. *Mol. Pharmacol.* **59**(6), 1446-1456 (2001).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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