



# SZABO SCANDIC

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## Produktinformation



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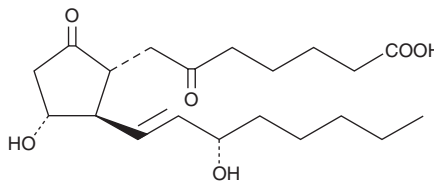
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# PRODUCT INFORMATION

## 6-keto Prostaglandin E<sub>1</sub>

Item No. 13260

**CAS Registry No.:** 67786-53-2  
**Formal Name:** 6,9-dioxo-11 $\alpha$ ,15S-dihydroxy-prost-13E-en-1-oic acid  
**Synonym:** 6-keto PGE<sub>1</sub>  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>6</sub>  
**FW:** 368.5  
**Purity:** ≥98%  
**Supplied as:** A solution in ethanol  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Melting Point:** 65°C



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

### Laboratory Procedures

6-keto Prostaglandin E<sub>1</sub> (PGE<sub>1</sub>) is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of PGE<sub>1</sub> in these solvents is approximately 15 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 PGE<sub>1</sub> is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of PGE<sub>1</sub> in PBS, pH 7.2, is approximately 3.3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

6-keto PGE<sub>1</sub> is a metabolite isolated after the incubation of PGI<sub>2</sub> with rabbit liver microsomes.<sup>1</sup> However, it is not produced in appreciable amounts following IV infusion of PGI<sub>2</sub> in humans.<sup>2</sup> 6-keto PGE<sub>1</sub> is equipotent with PGI<sub>2</sub> as a vasodilator; in most other aspects its activity resembles PGE<sub>1</sub>.<sup>3</sup>

### References

1. Wong, P.Y.-K., Malik, K.U., Desiderio, D.M., *et al.* Hepatic metabolism of prostacyclin (PGI<sub>2</sub>) in the rabbit: Formation of a potent novel inhibitor of platelet aggregation. *Biochem. Biophys. Res. Commun.* **93**, 486-494 (1980).
2. Jackson, E.K., Goodman, R.P., Fitzgerald, G.A., *et al.* Assessment of the extent to which exogenous prostaglandin I<sub>2</sub> is converted to 6-keto-prostaglandin E<sub>1</sub> in human subjects. *J. Pharmacol. Exp. Ther.* **221**, 183-187 (1982).
3. Adaikan, P.G., Tai, M.Y., Lau, L.C., *et al.* A comparison of some pharmacological actions of prostaglandin D<sub>2</sub>, 6-oxo-PGE<sub>1</sub> and PGI<sub>2</sub>. *Prostaglandins* **27**, 505-516 (1984).

#### 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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