



# SZABO SCANDIC

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## Produktinformation



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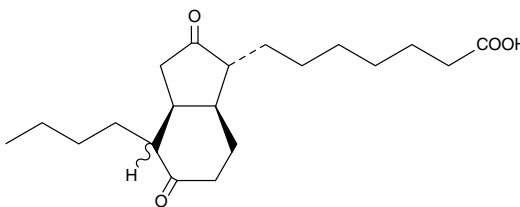
# Product Information



## Bicyclo Prostaglandin E<sub>1</sub>

Item No. 13530

**Formal Name:** 11-deoxy-13,14-dihydro-15-keto-11 $\beta$ ,16 $\gamma$ -cycloprostaglandin E<sub>1</sub>  
**Synonym:** Bicyclo PGE<sub>1</sub>  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>4</sub>  
**FW:** 336.5  
**Purity:**  $\geq$ 98%  
**Stability:**  $\geq$ 1 year at -20°C  
**Supplied as:** A solution in methyl acetate



### Laboratory Procedures

For long term storage, we suggest that bicyclo prostaglandin E<sub>1</sub> (bicyclo PGE<sub>1</sub>) be stored as supplied at -20°C. It should be stable for at least one year.

Bicyclo PGE<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 bicyclo PGE<sub>1</sub> in these solvents is approximately 25 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 bicyclo PGE<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 bicyclo PGE<sub>1</sub> in PBS (pH 7.2) is approximately 1.4 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Bicyclo PGE<sub>1</sub> is a stable, base-catalyzed transformation product of the PGE<sub>1</sub> metabolite 13,14-dihydro-15-keto PGE<sub>1</sub>. 13,14-dihydro-15-keto PGE<sub>1</sub> itself is a metabolite of PGE<sub>1</sub><sup>1,2</sup> found in human plasma at a median level of 10 pg/ml.<sup>3</sup> Due to the inherent instability of 13,14-dihydro-15-keto PGE<sub>1</sub>, it is advisable to quantify it as bicyclo PGE<sub>1</sub> to estimate PGE<sub>1</sub> biosynthesis or metabolism *in vivo*.

### References

1. Hamberg, M. and Samuelsson, B. On the metabolism of prostaglandins E<sub>1</sub> and E<sub>2</sub> in man. *J. Biol. Chem.* **246**, 6713-6721 (1971).
2. Peskar, B.A., Cawello, W., Rogatti, W., *et al.* On the metabolism of prostaglandin E<sub>1</sub> administered intravenously to human volunteers. *J. Physiol. Pharmacol.* **42**, 327-331 (1991).
3. Leonhardt, A., Krauss, M., Gieler, U., *et al.* *In vivo* formation of prostaglandin E<sub>1</sub> and prostaglandin E<sub>2</sub> in atopic dermatitis. *Br. J. Dermatol.* **136**, 337-340 (1997).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/13530](http://www.caymanchem.com/catalog/13530)

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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.**

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