



# SZABO SCANDIC

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## Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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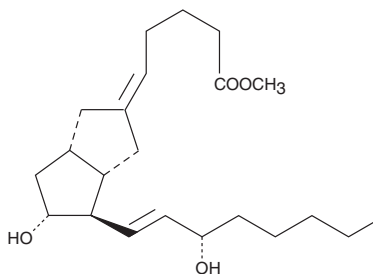
# PRODUCT INFORMATION



## Carbaprostacyclin methyl ester

Item No. 9000183

**CAS Registry No.:** 69552-55-2  
**Formal Name:** 6,9 $\alpha$ -methylene-11 $\alpha$ ,15S-dihydroxy-prosta-5E,13E-dien-1-oic acid, methyl ester  
**MF:** C<sub>22</sub>H<sub>36</sub>O<sub>4</sub>  
**FW:** 364.5  
**Purity:**  $\geq$ 98%  
**Supplied as:** A solution in ethanol  
**Storage:** -20°C  
**Stability:**  $\geq$ 1 year



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

### Laboratory Procedures

Carbaprostacyclin methyl ester 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 (DMF) purged with an inert gas can be used. The solubility of carbaprostacyclin methyl ester in DMSO is approximately 5 mg/ml and approximately 10 mg/ml in DMF.

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 carbaprostacyclin methyl ester is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of carbaprostacyclin methyl ester in PBS, pH 7.2, is approximately 0.1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Carbaprostacyclin is a stable analog of prostacyclin (prostaglandin I<sub>2</sub>) which can activate the prostacyclin receptor or PPAR $\delta$ .<sup>1-3</sup> Carbaprostacyclin methyl ester is a more lipid soluble form of carbaprostacyclin. As a result, it may more readily enter cells to activate PPAR $\delta$ . The biological activities of carbaprostacyclin methyl ester have not been studied.

### References

1. Aubert, J., Ailhaud, G., and Negrel, R. Evidence for a novel regulatory pathway activated by (carba) prostacyclin in preadipose and adipose cells. *FEBS Lett.* **397**, 117-121 (1996).
2. Armstrong, R.A., Lawrence, R.A., Jones, R.L., et al. Functional and ligand binding studies suggest heterogeneity of platelet prostacyclin receptors. *Br. J. Pharmacol.* **97**, 657-668 (1989).
3. Kurtz, M., Capobianco, E., Martínez, N., et al. Carbaprostacyclin, a PPAR $\delta$  agonist, ameliorates excess lipid accumulation in diabetic rat placentas. *Life Sci.* **86**, 781-790 (2010).

#### 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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