



# SZABO SCANDIC

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## Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Cyclopentenone Prostaglandin HPLC Mixture

Item No. 10000

**Synonym:** Cyclopentenone PG HPLC Mixture  
**Purity:** ≥98% for each compound  
**Stability:** ≥6 months at -80°C  
**Supplied as:** A solution in methyl acetate (100 µg of each compound)

### Laboratory Procedures

The Cyclopentenone Prostaglandin HPLC Mixture is supplied as a solution in methyl acetate. We suggest that it be stored as supplied at -80°C. It will be stable for at least six months.

### Description

PGE<sub>2</sub> (Item No. 14010) and PGD<sub>2</sub> (Item No. 12010) are both chemically unstable. In the absence of any enzymatic influence, both undergo dehydration to form the highly UV active cyclopentenone compounds PGA<sub>2</sub> (Item No. 10210) and PGJ<sub>2</sub> (Item No. 18500), respectively.<sup>1,2</sup> These compounds absorb in the ultraviolet with maxima at 216-220 nm. The cyclopentenone PGs have been noted to have antimetabolic, antiviral, and antitumor activity in a number of systems.<sup>3,4</sup>

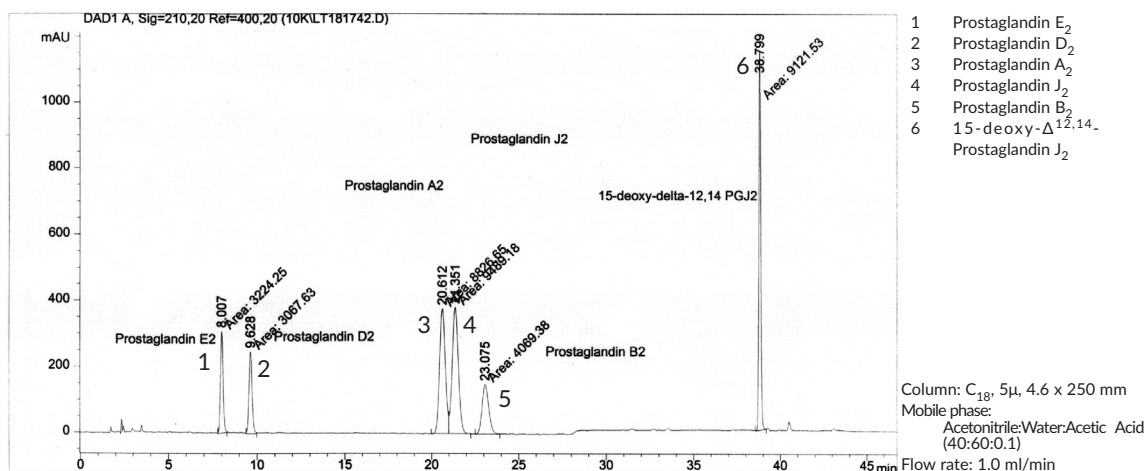
PGA<sub>2</sub> and PGJ<sub>2</sub> can also undergo further elimination and double bond rearrangements to give PGB<sub>2</sub> (Item No. 11210) and 15-deoxy-Δ<sup>12,14</sup>-PGJ<sub>2</sub> (Item No. 18570), respectively. 15-deoxy-Δ<sup>12,14</sup>-PGJ<sub>2</sub> is a relatively potent ligand for the PPARγ nuclear receptor.<sup>5</sup> PGB<sub>2</sub> does not appear to have significant intrinsic biological activity; however, it is frequently used as a reliable internal standard for analysis of eicosanoids by HPLC.

### References

#### References

1. Granström, E. and Samuelsson, B. *Adv. Prostaglandin Thromboxane Res.* **5**, 1-13 (1978).
2. Fitzpatrick, F.A. and Wynalda, M.A. *J. Biol. Chem.* **258**, 11713-11718 (1983).
3. Fukushima, M., Kato, T., Narumiya, S., *et al.* *Adv. Prostaglandin Thromboxane Leukotriene Res.* **19**, 415-418 (1989).
4. Fukushima, M. *Eicosanoids* **3**, 189-199 (1990).
5. Kliewer, S.A., Lenhard, J.M., Willson, T.M., *et al.* *Cell* **83**, 813-819 (1995).

### Image



#### 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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