# PRODUCT INFORMATION



## 9-deoxy-9-methylene Prostaglandin E<sub>2</sub>

Item No. 14410

CAS Registry No.: 61263-32-9

Formal Name: 11α,15S-dihydroxy-9-methylene-

prosta-5Z,13E-dien-1-oic acid

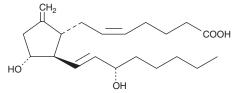
Synonym: 9-deoxy-9-methylene PGE<sub>2</sub>

MF:  $C_{21}H_{34}O_4$ FW: 350.5 **Purity:** ≥98%

Supplied as: A solution in methyl acetate

Storage: -20°C Stability: ≥2 years

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



### **Laboratory Procedures**

9-deoxy-9-methylene  $PGE_2$ ) 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 9-deoxy-9-methylene  $PGE_2$  in these solvents is approximately 100 mg/ml.

9-deoxy-9-methylene  $PGE_2$  is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of 9-deoxy-9-methylene PGE2 should be diluted with the aqueous buffer of choice. The solubility of 9-deoxy-9-methylene  $PGE_2$  in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

#### Description

9-deoxy-9-methylene  $PGE_2$  is a synthetic analog of  $PGE_2$  (Item No. 14010). 9-deoxy-9-methylene  $PGE_2$ retains the biological profile of PGE2 with increased stability. In the rat, 9-deoxy-9-methylene PGE2 is equipotent to PGE2 in decreasing blood pressure. It also stimulates the gerbil colon and primate uterus at the same potency as  $PGE_2$ .<sup>1</sup>

#### Reference

1. Bundy, G.L., Kimball, F.A., Robert, A., et al. Synthesis and biological activity of 9-deoxo-9-methylene and related prostaglandins. Adv. Prostaglandin Thromboxane Res. 6, 355-363 (1980).

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

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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