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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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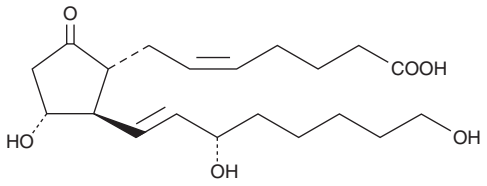
PRODUCT INFORMATION

20-hydroxy Prostaglandin E_2

Item No. 14950

CAS Registry No.:	57930-95-7
Formal Name:	9-oxo-11α,15S,20-trihydroxy-prosta-5Z,13E-dien-1-oic acid
Synonym:	20-hydroxy PGE_2
MF:	$C_{20}H_{32}O_6$
FW:	368.5
Purity:	≥95%
Supplied as:	A solution in ethanol
Storage:	-20°C
Stability:	≥1 year



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

Laboratory Procedures

20-hydroxy Prostaglandin E_2 (20-hydroxy PGE_2) 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 20-hydroxy PGE_2 in these solvents is approximately 100 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 20-hydroxy PGE_2 is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 20-hydroxy PGE_2 in PBS (pH 7.2) is approximately 5.0 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

20-hydroxy PGE_2 is a product of cytochrome P450 metabolism of PGE_2 (Item No. 14010).[1,2] ω-Oxidation at C-20 followed by β-oxidation and the loss of up to four carbons from the lower side chain is a prominent metabolic pathway for PGE_2. 20-hydroxy PGE_2 is the putative first intermediate in this chain of chemical transformations.

References

1. Oliw, E.H. Observations on the substrate specificity of prostaglandin hydroxylases of monkey seminal vesicles and sheep vesicular glands. *Biochim. Biophys. Acta* **1001**, 107-110 (1989).
2. Oliw, E.H., Fahlstadius, P., and Hamberg, M. Isolation and biosynthesis of 20-hydroxyprostaglandins E_1 and E_2 in ram seminal fluid. *J. Biol. Chem.* **261**, 9216-9221 (1986).

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