



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## *ent*-8-*iso* Prostaglandin F<sub>2a</sub>-d<sub>9</sub> Item No. 10011721

**Formal Name:** 9b,11b,15R-trihydroxy-(12a)-prosta-5Z,13E-dien-1-oic-17,17,18,18,19,19,20,20,20-d<sub>9</sub> acid

**Synonyms:** *ent*-8-*epi* PGF<sub>2a</sub>-d<sub>9</sub>, *ent*-8-*iso* PGF<sub>2a</sub>-d<sub>9</sub>, *ent*-15-F<sub>2t</sub>-Isoprostane-d<sub>9</sub>

**MF:** C<sub>20</sub>H<sub>25</sub>D<sub>9</sub>O<sub>5</sub>

**FW:** 363.5

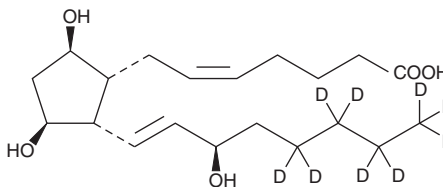
**Chemical Purity:** ≥98%

**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>9</sub>); ≤1% d<sub>0</sub>

**Supplied as:** A solution in acetonitrile

**Storage:** -20°C

**Stability:** ≥1 year



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

### Laboratory Procedures

*ent*-8-*iso* Prostaglandin F<sub>2a</sub>-d<sub>9</sub> (*ent*-8-*iso* PGF<sub>2a</sub>-d<sub>9</sub>) is intended for use as an internal standard for the quantification of *ent*-8-*iso* PGF<sub>2a</sub> (Item No. 10011545) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

*ent*-8-*iso* PGF<sub>2a</sub>-d<sub>9</sub> is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the acetonitrile 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 *ent*-8-*iso* PGF<sub>2a</sub>-d<sub>9</sub> in these solvents is approximately 100 mg/ml.

### Description

Isoprostanes are produced by the non-enzymatic, free-radical peroxidation of arachidonic acid. They have been used as biomarkers of oxidative stress, but they also have been found to have a potent biological activity. *ent*-8-*iso* PGF<sub>2a</sub> is a potent vasoconstrictor of porcine retinal and brain microvessels with EC<sub>50</sub> values of 31 and 54 nM, respectively.<sup>1</sup>

### Reference

1. Hou, X., Robers, L.J.II., Gobeil, F., Jr., *et al.* Isomer-specific contractile effects of a series of synthetic F<sub>2</sub>-isoprostanes on retinal and cerebral microvasculature. *Free Radic. Biol. Med.* **36**(2), 163-172 (2004).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

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