



CERTIFICATE OF ANALYSIS

PRODUCT:	8-<i>iso</i> Prostaglandin F_{2α} [9α,11α,15S-trihydroxy-(8β)-prosta-5Z,13E-dien-1-oic acid; iPF _{2α} -III; 8-epi PGF _{2α} ; 8-Isoprostane;15-F _{2t} -isoprostane], C ₂₀ H ₃₄ O ₅ , M.W. 354.5, CAS# [27415-26-5]
PRODUCT NUMBER:	P-1207
LOT NUMBER:	E1012
APPEARANCE:	Crystalline solid
SOLUBILITY:	100 mg/ml soluble in 100% ethanol, DMSO or dimethyl formamide; also soluble in aqueous buffers (10 mg/ml in PBS, pH 7.2, purged with an inert gas)
PURITY:	≥ 99%
PRODUCT DESCRIPTION:	8-iso PGF _{2α} is an isoprostane produced by the non-enzymatic peroxidation of arachidonic acid in membrane phospholipids. It is present in human plasma in two distinct forms - esterified in phospholipids and as the free acid. The ratio of these two forms is approximately 2:1, with a total plasma 8-iso PGF _{2α} level of about 150 pg/ml in normal volunteers. In normal human urine, 8-iso PGF _{2α} levels are about 180-200 pg/mg of creatinine. 8-iso PGF _{2α} is a weak TP receptor agonist in vascular smooth muscle. Conversely, 8-iso PGF _{2α} inhibits platelet aggregation induced by U-46619 (10 ⁻⁶ M) and I-BOP (3 x 10 ⁻⁷ M) with IC ₅₀ values of 1.6 x 10 ⁻⁶ M and 1.8 x 10 ⁻⁶ M, respectively.

EXPIRATION DATE: January 2017

STORAGE & HANDLING: Store at -20°C. We do not recommend storing aqueous solutions for more than one day.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified:

