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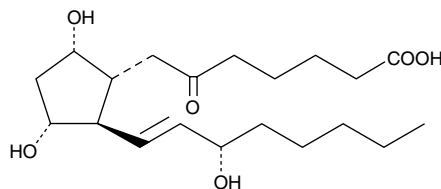
Product Information



6-keto Prostaglandin F_{1α}

Item No. 15210

CAS Registry No.: 58962-34-8
Formal Name: 6-oxo-9α,11α,15S-trihydroxy-prost-13-en-1-oic acid
Synonym: 6-keto PGF_{1α}
MF: C₂₀H₃₄O₆
FW: 370.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 6-keto PGF_{1α} be stored as supplied at -20°C. It should be stable for at least two years.

6-keto PGF_{1α} is supplied as a crystalline solid. Stock solutions of 6-keto PGF_{1α} can be made by dissolving the crystalline compound in the solvent of choice. Solvents such as ethanol, DMSO, or dimethyl formamide purged with an inert gas can be used. The solubility of 6-keto PGF_{1α} in these solvents is approximately 16, 50, and 100 mg/ml, respectively.

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 aqueous solution of 6-keto PGF_{1α} is needed, it can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 6-keto PGF_{1α} in PBS (pH 7.2) is approximately 3.3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

6-keto PGF_{1α} is the inactive, non-enzymatic hydrolysis product of PGI₂.^{1,2} 6-keto PGF_{1α} serves as a useful marker of PGI₂ biosynthesis *in vivo*.³ When [³H]-PGI₂ is injected into healthy human males, 6.6% of the radioactivity is recovered from urine as [³H]-6-keto PGF_{1α}.³

References

1. Pace-Asciak, C.R. Isolation, structure, and biosynthesis of 6-ketoprostaglandin F_{1α} in the rat stomach. *J. Am. Chem. Soc.* **98**, 2348-2349 (1976).
2. Johnson, R.A., Morton, D.R., Kinner, J.H., *et al.* The chemical structure of prostaglandin X (prostacyclin). *Prostaglandins* **12**, 915-928 (1976).
3. Brash, A.R., Jackson, E.K., Saggese, C.A., *et al.* Metabolic disposition of prostacyclin in humans. *J. Pharmacol. Exp. Ther.* **226**, 78-87 (1983).

Related Products

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