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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

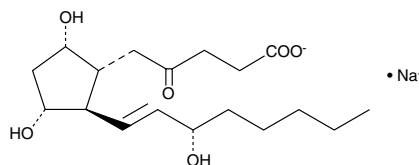
Product Information



2,3-dinor-6-keto Prostaglandin F_{1α} (sodium salt)

Item No. 15120

Formal Name: 6-oxo-9α,11α,15S-trihydroxy-2,3-dinor-prost-13E-en-1-oic acid, sodium salt
Synonym: 2,3-dinor-6-keto PGF_{1α} (sodium salt)
MF: C₁₈H₂₉O₆ • Na
FW: 364.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A lyophilized powder



Laboratory Procedures

2,3-dinor-6-keto Prostaglandin F_{1α} (2,3-dinor-6-keto PGF_{1α}) (sodium salt) is an inactive metabolite of PGI₂. For long term storage, we suggest that 2,3-dinor-6-keto PGF_{1α} (sodium salt) be stored as supplied at -20°C. It will be stable for at least two years.

2,3-dinor-6-keto PGF_{1α} (sodium salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the 2,3-dinor-6-keto PGF_{1α} (sodium salt) in the solvent of choice. 2,3-dinor-6-keto PGF_{1α} (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 2,3-dinor-6-keto PGF_{1α} (sodium salt) in ethanol is approximately 1 mg/ml and approximately 10 mg/ml in DMSO and DMF.

For biological experiments, we suggest that organic solvent-free aqueous solutions of 2,3-dinor-6-keto PGF_{1α} (sodium salt) be prepared by directly dissolving the lyophilized powder in aqueous buffers. The solubility of 2,3-dinor-6-keto PGF_{1α} (sodium salt) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

2,3-dinor-6-keto PGF_{1α} is the β-oxidation product of 6-keto PGF_{1α} and the major human urinary metabolite of PGI₂ in humans.^{1,2} 2,3-dinor-6-keto PGF_{1α} makes up 23% of the recovered radioactivity in urine after administration of labeled 6-keto PGF_{1α} and 20.5% after administration of labeled PGI₂.² In healthy human subjects, the average excreted 2,3-dinor-6-keto PGF_{1α} level is ~100 pg/mg creatinine.³

References

1. Fitzgerald, G.A., Lawson, J., Blair, I.A., *et al.* Analysis of urinary metabolites of thromboxane and prostacyclin by negative-ion chemical-ionization gas chromatography/mass spectrometry. *Adv. Prostaglandin Thromboxane Leukotriene Res.* **15**, 87-90 (1985).
2. Rosenkranz, B., Fischer, C., Reimann, I., *et al.* Identification of the major metabolite of prostacyclin and 6-ketoprostaglandin F_{1α} in man. *Biochim. Biophys. Acta* **619**, 207-213 (1980).
3. Wennmalm, Å., Benthin, G., Granström, E.F., *et al.* 2,3-dinor metabolites of thromboxane A₂ and prostacyclin in urine from healthy human subjects: Diurnal variation and relation to 24h excretion. *Clin. Sci.* **83**, 461-465 (1992).

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Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com

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