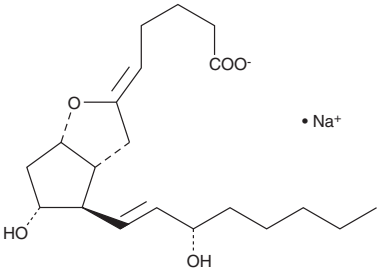
# Vascular APIs

Each prostaglandin (PG) evokes distinct physiological effects through specific cell surface receptors. $PGI_2$ (prostacyclin) promotes smooth muscle relaxation and inhibits platelet activation through the IP receptor. Agonists of IP, including epoprostenol, iloprost, and treprostinil, are effective in relaxing pulmonary arterial smooth muscle and are used in the treatment of pulmonary hypertension.

- US FDA and EMA compliant
- Analytical standards of impurities and degradation products available

## CGMP Epoprostenol sodium salt




### Nomenclature

**Formal Name:** 6,9α-epoxy-11α,15S-dihydroxy-prosta-5Z,13E-dien-1-oic acid, monosodium salt
**CAS Number:** 61849-14-7

### Formula

**Molecular Formula:** $C_{20}H_{31}O_5$ • Na · **Formula Weight:** 374.5

### Physiochemical Data

**Solubility:** Very soluble in water, ethanol, and methanol; slightly soluble in acetonitrile
**Appearance:** White or almost white, crystalline powder
**Optical Rotation:** $[\alpha]_D^{25}$ = +88° (c = 0.8 mg/ml, $CHCl_3$) +97° (c = 0.8 mg/ml, 95% ethanol)
**Other Data:** Material is highly hygroscopic from approximately 50% RH; it is unstable in acid and neutral conditions

### Availability

GMP material is available, and the DMF is on file with the US FDA, Canada, Japan, Australia, and many EU member states.



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