Prostaglandin G₁,

Product Number P 7617
Storage Temperature –70 °C

CAS® 52162-11-5
Synonyms: PGG₁; 15-Hydroperoxyprostaglandin R₁

Product Description
Formula: C₂₀H₃₄O₆
Formula weight: 370.5

Prostaglandins are a family of fatty acid derivatives possessing a variety of potent biological activities, which are hormonal or regulatory in nature.¹ Prostaglandin G₁ (PGG₁) is used in studying prostacyclin synthetase, an enzyme in the arachidonic acid cascade. Prostacyclin synthetase possesses a high sensitivity to time-dependent destruction by the oxidant released during the peroxidase-catalyzed reduction of PGG₁.²

Reagent
The product is supplied in an acetone solution.

Preparation Instructions
Solutions may be prepared in aqueous buffer (PBS) by evaporating the acetone using a stream of nitrogen with the product cooled on ice. The new solvent should be added immediately. Prostaglandin G₁ is soluble in PBS to at least 2 mg/ml. Aqueous solutions of PGG₁ are stable for no more than 10 minutes and should be prepared immediately prior to use.

Storage/Stability
Store at –70 °C. The product as supplied is stable at least two years when stored properly.

References