



# SZABO SCANDIC

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## Produktinformation



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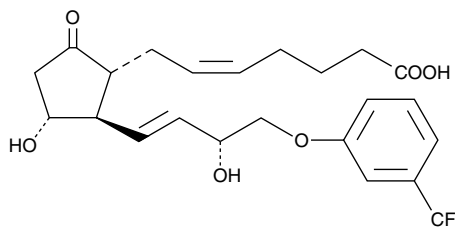
# Product Information



## 9-keto Fluprostenol

Item No. 16781

**CAS Registry No.:** 156406-33-6  
**Formal Name:** (±)-9-oxo-11 $\alpha$ ,15R-dihydroxy-16-(3-(trifluoromethyl)phenoxy)-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic acid  
**Synonym:** Fluprostenol PGE<sub>2</sub>  
**MF:** C<sub>23</sub>H<sub>27</sub>F<sub>3</sub>O<sub>6</sub>  
**FW:** 456.5  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A solution in methyl acetate  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 222, 277 nm



### Laboratory Procedures

9-keto Fluprostenol is an analog of PGE<sub>2</sub> with structural modifications intended to give it a prolonged half life and greater potency. For long term storage, we suggest that 9-keto fluprostenol be stored as supplied at -20°C. It should be stable for at least two years.

9-keto Fluprostenol is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol purged with an inert gas can be used. 9-keto Fluprostenol is miscible with ethanol. 9-keto Fluprostenol is stable for at least six months in ethanol if stored at -20°C.

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 solution of 9-keto fluprostenol is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 9-keto fluprostenol in PBS (pH 7.2) is at least 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Fluprostenol is a well-studied, potent analog of PGE<sub>2</sub> and acts primarily through the FP receptor.<sup>1</sup> Oxidation at C-9 of fluprostenol yields 9-keto fluprostenol. It is anticipated that this analog will have strong affinity for EP receptors and act as a PGE<sub>2</sub> agonist. However, no studies on the pharmacology of this compound have been published to date.

### Reference

1. Dukes, M., Russell, W., and Walpole, A.L. Potent luteolytic agents related to prostaglandin F<sub>2 $\alpha$</sub> . *Nature* **250**, 330-331 (1974).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16781](http://www.caymanchem.com/catalog/16781)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

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