5-\textit{trans} Fluprosteno\textit{I} isopropyl ester

\textit{Item No. 16777}

\textbf{CAS Registry No.:} 1563176-59-9
\textbf{Formal Name:} 9,11,15-trihydroxy-16-(3-(trifluoromethyl)phenoxy)-17,18,19,20-tetranor-prosta-5\textit{E},13\textit{E}-dien-1-oic acid, isopropyl ester
\textbf{Synonyms:} 5,6-\textit{trans} Fluprosteno\textit{I} isopropyl ester, 5-\textit{trans} Travoprost
\textbf{MF:} C_{26}H_{35}F_{3}O_{6}
\textbf{FW:} 500.6
\textbf{Purity:} ≥95%
\textbf{Stability:} ≥2 years at -20°C
\textbf{Supplied as:} A solution in ethanol

\textbf{Laboratory Procedures}

For long term storage, we suggest that 5-\textit{trans} Fluprosteno\textit{I} isopropyl ester (5-\textit{trans} Travoprost) be stored as supplied at -20°C. It should be stable for at least two years.

5-\textit{trans} Travoprost is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 5-\textit{trans} Travoprost in these solvents is approximately 20 mg/ml. 5-\textit{trans} Travoprost is stable for at least six months in these solvents if stored at -20°C.

5-\textit{trans} Travoprost is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5-\textit{trans} Travoprost should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 5-\textit{trans} Travoprost has a solubility of 500 μg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Travoprost is the Alcon trade name for fluprosteno\textit{I} isopropyl ester, an F-series prostaglandin analog which has been approved for use as an ocular hypotensive drug.\textsuperscript{1} It is a prodrug which is converted by esterase enzymatic activity in the cornea to yield the corresponding free acid.\textsuperscript{2} 5-\textit{trans} Travoprost is an impurity that is routinely found in bulk lots of Travoprost in amounts ranging from 1-3%. The pharmacology of 5-\textit{trans} Travoprost has not been studied extensively to date.

\textbf{References}


\textbf{Related Products}

For a list of related products please visit: www.caymanchem.com/catalog/16777

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

\textbf{SAFETY DATA}

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

\textbf{WARRANTY AND LIMITATION OF REMEDY}

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

The limitations of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

Copyright Cayman Chemical Company, 08/19/2014