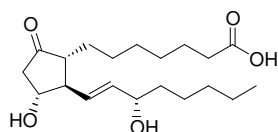




## Certificate of Analysis

**Axon Catalogue ID:** 2062 **Batch Number:** 1  
**Product Name:** Alprostadil  
**Alternative Name(s):** Prostaglandin E1 - PGE1  
**IUPAC Name:** 7-((1R,2R,3R)-3-Hydroxy-2-((S,E)-3-hydroxyoct-1-enyl)-5-oxocyclopentyl)heptanoic acid

**Structure:**



**Amount:**

**CAS number(s):** 745-65-3  
**Molecular Formula:** C<sub>20</sub>H<sub>34</sub>O<sub>5</sub> **Molecular Weight:** 354.48  
**Batch Molecular Formula:** C<sub>20</sub>H<sub>34</sub>O<sub>5</sub> **Batch Molecular Weight:** 354.48  
**Appearance:** White solid **Observed mp:** 116 - 117 °C  
**TLC (R<sub>f</sub>):** 0.5 DCM/MeOH (9:1)  
**Chemical Purity:** 99.3%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 67.76, H 9.67, N -; Found: C ND, H ND, N ND  
**Storage Conditions:** Store at -20 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			Not Tested
	0.1N NaOH (aq)	0.0	0.0	Insoluble
	0.1N HCl (aq)			Not Tested
	DMSO	35.4	>100 mM	
	EtOH			Not Tested

**Remarks:** Pfizer compound; Sold for research purposes under agreement from Pfizer Inc.

**QC Date:** 19-03-2019

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**