

Rev02
 Update: Aug,08,2025

DATASHEET

PGF hFc Chimera, Human

Cat. No.: Z05749

Product Introduction

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| Species | Human |
| Protein Construction | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> PGF(Leu19-Arg221) Accession # P49763-1 </div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center;"> hFc </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div> |
| Purity | > 95% as determined by BisTris PAGE > 95% as determined by HPLC |
| Endotoxin Level | Less than 1EU per µg by the LAL method. |
| Biological Activity | Measured by its binding ability in a functional ELISA. Immobilized PGF hFc Chimera, Human at 2µg/ml (100µl/Well) on the plate can bind Biotinylated AntiPGF Antibody, hFc Tag. Test result was comparable to standard batch. |
| Expression System | HEK293 |
| Theoretical Molecular Weight | 48.6 kDa |
| Apparent Molecular Weight | Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage & Stability | Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles. |

Background

Target Background : Placental growth factor (PGF) is another member of the VEGF family of cytokines with pro-angiogenic and pro-inflammatory effects. Retinal inhibition of PGF in combination with VEGF-A prevents vascular leakage and CNV possibly via modulating their own expression in mononuclear phagocytes. PGF-related, optimized strategies to target inflammation-mediated angiogenesis may help to increase efficacy and reduce non-responders in the treatment of wet AMD patients.

Synonyms : PIGF; PGF; PGFL; SHGC-10760; D12S1900; PIGF-2

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