

Rev01
 Update: Apr,07,2025

DATASHEET

PGF hFc Chimera, Mouse

Cat. No.: Z06307

Product Introduction

Species	Mouse
Protein Construction	<div> <div>PGF (Val19-Pro158)_x000D_</div> <div>Accession # P49764</div> <div>hFc</div> </div> <div> <div>N-term</div> <div>C-term</div> </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 Human VEGF R1, His Tag at 5µg/ml (100µl/well) on the plate can bind PGF hFc Chimera, Mouse. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	42.4 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 55-65 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 : PlGF; PGF; PGFL; SHGC-10760; D12S1900; PlGF-2

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