

Human GPVI Protein

Cat. No. GP6-HM101



Description

Source	Recombinant Human GPVI Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln21-Lys267.
Accession	Q9HCN6-1
Molecular Weight	The protein has a predicted MW of 28 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
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	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Although platelets are best known for their role in hemostasis, they are also crucial in development, host defense, inflammation, and tissue repair. Many of these roles are regulated by the immune-like receptors glycoprotein VI (GPVI) and C-type lectin receptor 2 (CLEC-2), which signal through an immunoreceptor tyrosine-based activation motif (ITAM). GPVI is activated by collagen in the subendothelial matrix, by fibrin and fibrinogen in the thrombus, and by a remarkable number of other ligands.

Assay Data

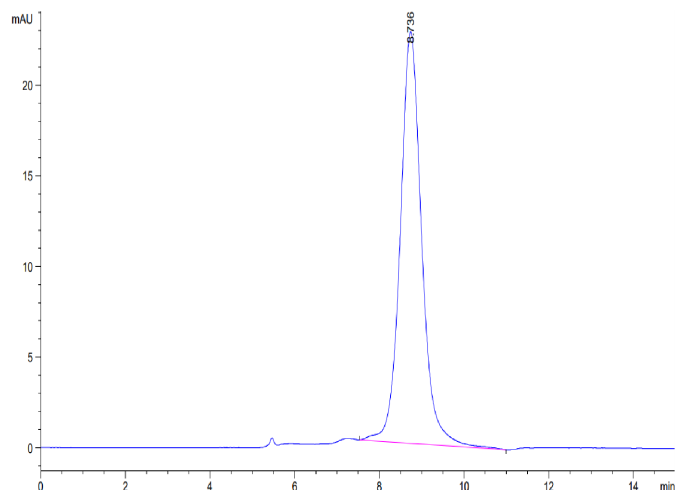
Tris-Bis PAGE



Human GPVI on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

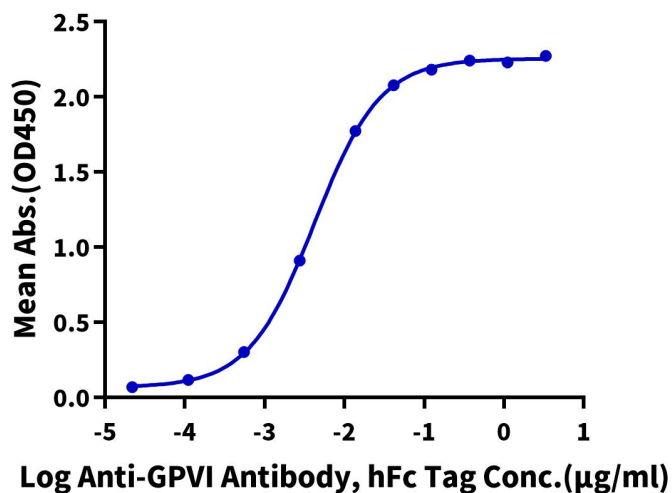


The purity of Human GPVI is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human GPVI, His Tag ELISA

0.05µg Human GPVI, His Tag Per Well



Immobilized Human GPVI, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GPVI Antibody, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA.