Data Sheet (Cat.No.TMPK-01302)

TargetMol

GPVI Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	Glycoprotein 6;MGC138168;GPVI;Gp6
Protein Construction:	Gln21-Asn251
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	XP_005590417.2
Molecular Weight:	26.42 kDa (predicted). Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus 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 5.3ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Rayes J, et al. Functional significance of the platelet immune receptors GPVI and CLEC-2. J Clin Invest. 2019 Jan 2; 129(1):12-23. doi: 10.1172/JCI122955. Epub 2019 Jan 2. PMID: 30601137; PMCID: PMC6307936.

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