

Bioactive

HuPro®

GP6 (Human) Recombinant Protein

Catalog # P9863 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

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



SEC-HPLC

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



Tris-Bis PAGE

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

Specification

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Product Information

Product Description	Human GP6 (Q9HCN6-1, Gln21-Lys267) partial recombinant protein with His tag at C-Terminus expr essed in HEK293 cells.
Sequence	Gln21-Lys267
Host	Human
Theoretical MW (kDa)	28
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC $_{50}$ was 4.2 ng/mL, messured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human GPVI is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human GPVI on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

• Enzyme-linked Immunoabsorbent Assay

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

- Functional Study
- SDS-PAGE

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Gene Info — GP6

Entrez GenelD	<u>51206</u>
Protein Accession#	<u>Q9HCN6-1</u>
Gene Name	GP6
Gene Alias	GPIV, GPVI, MGC138168
Gene Description	glycoprotein VI (platelet)
Omim ID	<u>605546</u>
Gene Ontology	Hyperlink
Gene Summary	Glycoprotein VI (GP6) is a 58-kD platelet membrane glycoprotein that plays a crucial role in the c ollagen-induced activation and aggregation of platelets. Upon injury to the vessel wall and subseq uent damage to the endothelial lining, exposure of the subendothelial matrix to blood flow results i n deposition of platelets. Collagen fibers are the most thrombogenic macromolecular components of the extracellular matrix, with collagen types I, III, and VI being the major forms found in blood ves sels. Platelet interaction with collagen occurs as a 2-step procedure: (1) the initial adhesion to coll agen is followed by (2) an activation step leading to platelet secretion, recruitment of additional pl atelets, and aggregation. In physiologic conditions, the resulting platelet plug is the initial hemosta tic event limiting blood loss. However, exposure of collagen after rupture of atherosclerotic plaque s is a major stimulus of thrombus formation associated with myocardial infarction or stroke (Jandr ot-Perrus et al., 2000 [PubMed 10961879]).[supplied by OMIM
Other Designations	platelet collagen receptor platelet glycoprotein VI

Pathway

• ECM-receptor interaction

Disease

- Atherosclerosis
- Brain Infarction
- Brain Ischemia
- <u>Cardiovascular Diseases</u>
- Carotid Stenosis

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- <u>Coronary Artery Disease</u>
- Coronary Disease
- Coronary Thrombosis
- Death
- Diabetes Mellitus
- Disease Progression
- Ductus Arteriosus
- Edema
- Genetic Predisposition to Disease
- <u>Glomerulonephritis</u>
- <u>Hemorrhage</u>
- Infant
- <u>Kidney Failure</u>
- <u>Myocardial Infarction</u>
- Stroke
- Thrombosis
- Tobacco Use Disorder
- <u>Vascular Diseases</u>

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