

## GPVI Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P70180
<b>Synonyms:</b>	rMuGlycoprotein 6 (Platelet)/GPVI, His ; Glycoprotein 6; glycoprotein VI (platelet); GP6; GPIV; GPVI; GPVIplatelet collagen receptor; MGC138168; platelet glycoprotein VI
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	B2RR15 (Q22-K265)
<b>Gene ID:</b>	243816
<b>Molecular Weight:</b>	40-60 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           Q S G P L P K P S L    Q A Q P S S L V P L    G Q S V I L R C Q G    P P D V D L Y R L E            K L K P E K Y E D Q    D F L F I P T M E R    S N A G R Y R C S Y    Q N G S H W S L P S            D Q L E L I A T G V    Y A K P S L S A H P    S S A V P Q G R D V    T L K C Q S P Y S F            D E F V L Y K E G D    T G P Y K R P E K W    Y R A N F P I I T V    T A A H S G T Y R C            Y S F S S S S P Y L    W S A P S D P L V L    V V T G L S A T P S    Q V P T E E S F P V            T E S S R R P S I L    P T N K I S T T E K    P M N I T A S P E G    L S P P I G F A H Q            H Y A K         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Interaction of platelets with collagen via the receptor GPVI results in platelet activation and adhesion--the processes that are essential for thrombus formation. On the platelet surface, GPVI is present as a complex with the homodimeric Fc receptor γ-chain (FcRγ with a possible stoichiometry of two GPVI molecules and one FcRγ dimer). When collagen binds to GPVI, a platelet activation cascade is initiated by tyrosine phosphorylation of the immunoreceptor tyrosine-based activation motif of FcRγ and this phosphorylation induces the formation of a large complex composed</p>
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from many signal-transducing proteins. GPVI inhibitor would be able to inhibit thrombus formation but still not cause a significant bleeding tendency<sup>[1]</sup>.

both collagen and GPVI are insoluble molecules. The extracellular domain of GPVI is soluble forms as follows: the monomeric form (GPVlex) and the dimeric form of GPVI fused with the human immunoglobulin Fc domain (GPVI-Fc2). Purified GPVlex strongly inhibited convulxin (Cvx)-induced platelet aggregation but only weakly inhibited that induced by collagen-related peptide. However, only GPVI-Fc2, and not GPVlex, inhibited collagen-induced platelet aggregation<sup>[3]</sup>.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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