

Human HRG/HPRG Protein

Cat. No. HRG-HM101

Description

Source	Recombinant Human HRG/HPRG Protein is expressed from HEK293 with His tag at the C-terminal. It contains Val19-Lys525.
Accession	NP_000403.1
Molecular Weight	The protein has a predicted MW of 58.75 kDa. Due to glycosylation, the protein migrates to 70-80 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

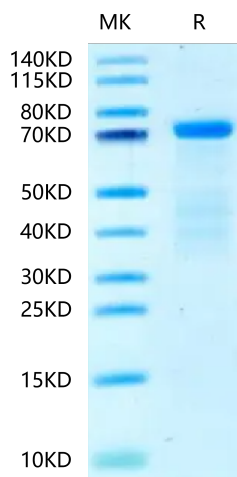
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized 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

Histidine-rich glycoprotein (HRG) is a 75 kDa glycoprotein synthesized in the liver whose plasma concentration is 100-150 $\mu\text{g}/\text{ml}$. HRG has been shown to modulate sepsis-related biological reactions by binding to several substances and cells, including heparin, factor XII, fibrinogen, thrombospondin, plasminogen, C1q, IgG, heme, LPS, dead cells, bacteria, and fungi.

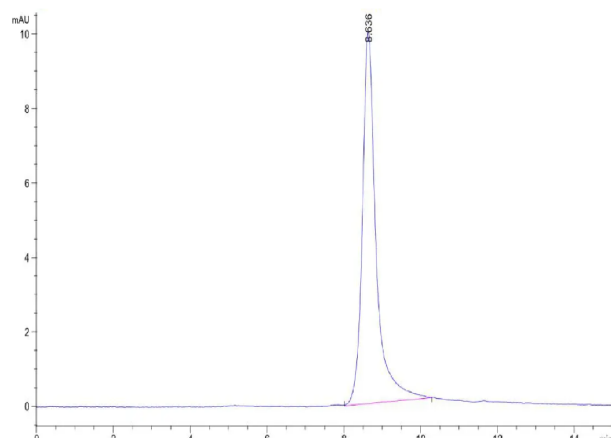
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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