

HRG/HPRG Recombinant Protein | HRG recombinant protein

Recombinant Mouse HRG/HPRG Protein (His Tag), HPLC-verified

CATALOG # AAA259314	HOST HEK293 Cells	REACTIVITY Mouse
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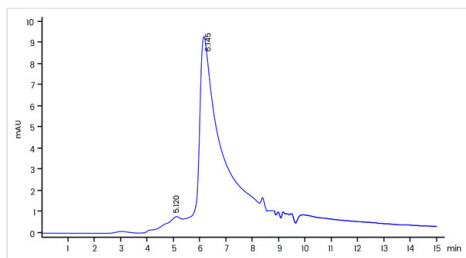
PRODUCT SYNONYMS

HRG/HPRG; Recombinant Mouse HRG/HPRG Protein (His Tag); HPLC-verified; Mouse HRG/HPRG Protein (His Tag); histidine-rich glycoprotein; D16jh2 Protein; Mouse; D18020 Protein; Hprg Protein; Hrg Protein; Hrgp Protein; HRG recombinant protein

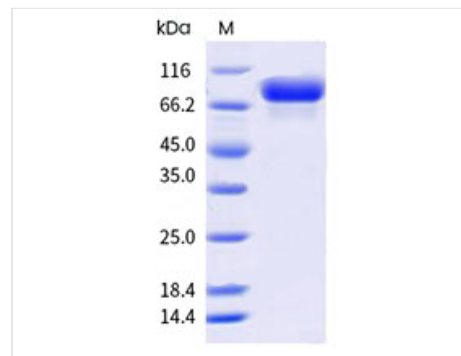
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Mouse
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Leu19-Lys525
Tag	C-His
Predicted N Terminal	Leu 19
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Mouse HRG (Q9ESB3)(Leu19-Lys525) was expressed with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for HRG recombinant protein	Histidine-rich glycoprotein, also known as HRG and HPRG, is a glycoprotein located in plasma and platelets and contains an unusually large amount of histidine and proline. In humans, five distinct domains are recognized in the mature HPRG molecule. There are two N-terminal cystatin-like modules (aa 19-254) and one His-Pro-rich region (aa 350-497) that is flanked by two Pro-rich segments (aa 276-321 and 498-525). The His-Pro-rich region contains 10 tandem repeats with an HHPHG motif, and the N- and C-termini are linked by a disulfide bond. The specific functions of HRG remain unclear, but it is known that the protein binds heme, dyes, and divalent metal ions. It inhibits rosette formation and interacts with heparin, thrombospondin, and plasminogen. Two of the protein's effects, the inhibition of fibrinolysis, and the reduction of inhibition of coagulation indicate a potential prothrombotic effect. HPRG is evolutionarily, functionally, and structurally related to cleaved high molecular weight kininogen (HKa), an anti-angiogenic polypeptide that stimulates apoptosis of proliferating endothelial cells through binding to cell-surface tropomyosin. The antiangiogenic activity of the multidomain plasma protein HPRG is localized to its histidine-proline-rich (H/P) domain and has recently been shown to be mediated, at least partially, through binding to cell-surface tropomyosin in fibroblast growth factor-2-activated endothelial cells.
References	Gua. X. e. al. (2004. Histidine-prolin. ric. glycoprotei. (HPRG. bind. an. transduce. anti-angiogeni. signal. throug. cel. surfac. tropomyosi. o. endothelia. cells. Throm. Haemost. 92(2). 403-12.Doat. F. e. al. (2004. Peptide. derive. fro. th. histidine-prolin. domai. o. th. histidine-proline-ric. glycoprotei. bin. t. tropomyosi. an. hav. antiangiogeni. an. antitumo. activities. Cance. Res. 64(16). 5812-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226958456
NCBI GeneID	94175
NCBI Accession #	NP_444406.2
NCBI GenBank Nucleotide #	NM_053176.2
UniProt Accession #	Q9ESB3; Q6YK32; Q6YKA2; Q99PS5; Q99PS6
Molecular Weight	59,163 Da
NCBI Official Full Name	histidine-rich glycoprotein
NCBI Official Synonym Full Names	histidine-rich glycoprotein
NCBI Official Symbol	Hrg
NCBI Official Synonym Symbols	Hprg; Hrgp; D16jh2; D18020; AI265597; AW413091
NCBI Protein Information	histidine-rich glycoprotein
UniProt Protein Name	Histidine-rich glycoprotein
UniProt Gene Name	Hrg
UniProt Synonym Gene Names	HPRG
UniProt Entry Name	HRG_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hrg-recombinant-protein-hek293-cells/259314>