

Recombinant Human HRG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HRG-4707H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HRG MS Standard C13 and N15-labeled recombinant protein (NP_000403) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This histidine-rich glycoprotein contains two cystatin-like domains and is located in plasma and platelets. The physiological function has not been determined but it is known that the protein binds heme, dyes and divalent metal ions. The encoded protein also has a peptide that displays antimicrobial activity against <i>C. albicans</i> , <i>E. coli</i> , <i>S. aureus</i> , <i>P. aeruginosa</i> , and <i>E. faecalis</i> . It can inhibit 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. Mutations in this gene lead to thrombophilia due to abnormal histidine-rich glycoprotein levels.
Molecular Mass	59.6 kDa
AA Sequence	MKALIAALLLITLQYSCAVSPTDCSAVEPEAEKALDLINKRRRDGYLFQLLRIADAHLD RVENTTVYYLVLDVQESDCSVLSRKYWNDCEPPDSRRPSEIVIGQCKVIATRSHES QDLRVIDFNCTTSSVSSALANTKDSPVLIDFFEDTERYRKQANKALEKYKEENDDF SFRVDRIERVARVRGGEGTGYFVDFSVRNCPRHHFPRHPNVFGFCRADLFYDVEAL

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DLESPKNLVINCEVFDPQEHENINGVPPHLGHPFHWGGHERSSTTKPPFKPHGSRD
 HHHPHKPHEHGPPPPDERDHSHPPLPQGPPPLPMSCSSCQHATFGTNGAQR
 HSHNNNSSDLHPHKHHSHEQHHPGHHPHAHHPHEHDTHRQHPHGHHHPGHHPH
 GHHPHGHHHPGHHPHCHDFQDYGPCDPPPHNQGHCCGHGPPPGHLRRRGPGK
 GPRPFHCRQIGSVYRLPPLRKGEVLPLPEANFPSFPLPHHKHPLKPDNQPFQSVS
 ESCPGKFKSGFPQVSMFFTHTFPKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HRG histidine-rich glycoprotein [Homo sapiens (human)]

Official Symbol HRG

Synonyms HRG; histidine-rich glycoprotein; histidine proline rich glycoprotein; HPRG; HRGP; thrombophilia due to elevated HRG; histidine-proline-rich glycoprotein; THPH11; DKFZp779H1622;

Gene ID 3273

mRNA Refseq NM_000412

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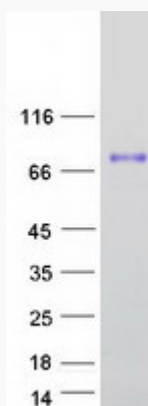
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Protein Refseq NP_000403

MIM 142640

UniProt ID P04196

SDS-PAGE



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