

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 QDLRVIDFNCTTSSVSSALANTKDSPVLIDFFEDTERYRKQANKALEKYKEENDDDFA SFRVDRIERVARVRGGEGTGYFVDFSVRNCPRHHFPRHPNVFGFCRADLFYDVEAL

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DLESPKNLVINCEVFDPQEHENINGVPPHLGHPFHWGGHERSSTTKPPFKPHGSRD
 HHHPHKPHEHGPPPPDERDHSHPPLPQGPPPLLPMSCSSCQHATFGTNGAQR
 HSHNNNSSDLPHPKHHSHEQHPHGHHPHAHHPHEHDTHRQHPHGHHHPHGHHPH
 GHHPHGHHHPHGHHPHCHDFQDYGPCDPPPHNQGHCCGHGPPPGHLRRRGPGK
 GPRPFHCRQIGSVYRLPPLRKGEVLPPEANFPSFPLPHHKHPLKPDNQFPQSVS
 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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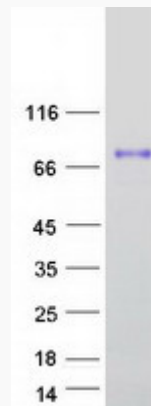
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Protein Refseq NP_000403

MIM 142640

UniProt ID P04196

SDS-PAGE



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