

Recombinant Human HRG protein(Val19~Lys525), His-tagged

Cat. No. HRG-593H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HRG protein(Val19~Lys525), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Val19~Lys525
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and Proclin300.
Bio-activity	HRG (Histidine-rich glycoprotein) is a plasma glycoprotein which is distinguished by its high content of histidine and proline. HRG binds a number of ligands such as heme, heparin, heparan sulfate, thrombospondin, plasminogen, and divalent metal ions. Thus, a functional binding ELISA assay was constructed to detect the association of rhHRG with heparin. Briefly, Microtiter wells were coated with OVA-conjugated-heparin. rhHRG were diluted serially in 0.01M PBS (pH 7.4). Duplicate samples of 100uL were then transferred to the coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HRG PAb, then aspirated and washed 3 times. After incubation with HRP labeled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate Solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of

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rhHRG with heparin was shown in Figure and this effect was in a dose dependent manner.

Molecular Mass 59.3kDa

Endotoxin <1.0EU per 1µg (determined by the LAL method).

Purity >98%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

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](#)

Protein Refseq [NP_000403](#)

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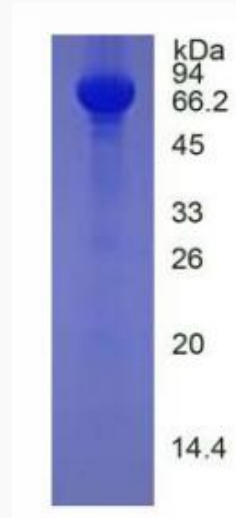
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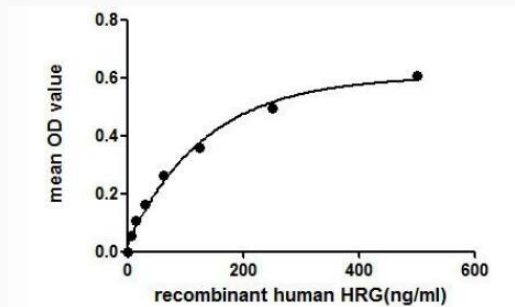
MIM 142640

UniProt ID P04196

SDS-PAGE



Activity



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