

Recombinant Human HRG/HPRG Protein

Catalog No.: RP01787

Sequence Information

Species **Gene ID**
Human 3273

Swiss Prot **Tags**
P04196 C-His

Synonyms
HPRG; HRGP; THPH11;HRG

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
58.50 kDa 75 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

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. 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.

Basic Information

Description

Recombinant Human HRG/HPRG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val19–Lys525) of human HRG/HPRG (Accession #NP_000403.1) fused with and a 6×His tag at the C-terminus.

Activity

Measured by its ability to support the adhesion of MOLT-4 human acute lymphoblastic leukemia cells. Human HPRG immobilized at 1 μg/ml (100 μl /well) will induce >73.04% MOLT4 cell adhesion (1 x 10⁵ cells/well) in the presence of 7.5 μg/ml Concanavalin A.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

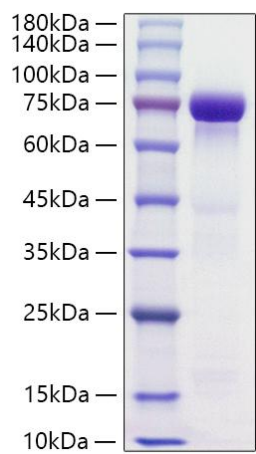
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Validation Data



Recombinant Human HRG/HPRG Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.