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Datasheet for ABIN7536456
HRG Protein (His tag)

Overview

| | |
|-------------------------------|--|
| Quantity: | 100 µg |
| Target: | HRG |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HRG protein is labelled with His tag. |

Product Details

| | |
|--------------|--|
| Purpose: | Recombinant Human HRG/HPRG Protein |
| Sequence: | <p>VSPTDCSAVE PEAEKALDLI NKRRRDGYLF QLLRIADAHL DRVENTTVYY LVLDVQESDC SVLSRKYWND CEPPDSRRPS EIVIGQCKVI ATRHSHESQD LRVIDFNCTT SSVSSALANT KDSPVLIDFF EDTERYRKQA NKALEKYKEE NDDFASFRVD RIERVARVRG GEGTGYFVDF SVRNCPRHHF PRHPNVFGFC RADLFYDVEA LDLESPKNLV INCEVFDPQE HENINGVPPH LGHPFHWGGH ERSSTTKPPF KPHGSRDHHH PHKPHEHGPP PPPDERDHSR GPPLPQGPPP LLPMSCSSCQ HATFGTNGAQ RSHNNNSSD LPHKHHSHE QHPHGHHPHA HHPHEHDTHR QHPHGHHPHG HHPHGHHPHG HHPHGHHPHC HDFQDYGPCD PPPHNQGHCC HGHGPPPGHL RRRGPGKGR PFHCRQIGSV YRLPPLRKGE VLPLPEANFP SFPLPHHKHP LKPDNQPFQ SVSESCPGKF KSGFPQVSMF FTHTFPK</p> |
| Specificity: | Val19-Lys525 |
| Purity: | > 95 % by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |

Product Details

Endotoxin Level: <0.001 EU/μg

Target Details

Target: HRG

Alternative Name: HRG/HPRG ([HRG Products](#))

Background: Description: 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.

Name: HPRG, HRGP, THPH11,HRG

Gene ID: 3273

UniProt: [P04196](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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.

Concentration: 0.82 mg/mL

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

Handling

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.