

Certificate of Analysis (CoA)

Recombinant Human HPRG

Catalog# 100-60

Lot# 0916512

Source: CHO cells

Expiration Date: December 2027

Manufacturing Site: Rocky Hill, NJ, USA

Synonyms: Histidine-Proline-Rich Glycoprotein, Histidine-rich glycoprotein (HRG), HRGP, THPH11

Description: Histidine-proline-rich glycoprotein (HPRG), a member of the Cystatin structural superfamily, is an abundantly secreted multi-domain glycoprotein. Although the physiological function is largely unknown, HPRG potentially regulates physiological processes such as cell adhesion and migration, fibrinolysis, coagulation, complement activation, immune complex clearance and phagocytosis of apoptotic cells. HPRG can exert anti-angiogenic activity by stimulating apoptosis of endothelial cells. Recombinant Human HPRG is a 57.7 kDa glycoprotein containing 507 amino acid residues.

Sequence:
 VSPDTCSAVE PEA EKALDLI NKRRRDGYLF QLLRIADAH L DRVENTTVYY LVLDVQESDC SVLSRKYWND CEPPDSRRPS
 EIVIGQCKVI ATRHSHEQD LRVIDFNCTT SSVSSALANT KDSPVLIDFF EDERYRKQA NKALEKYKEE NDDFASFRVD
 RIERVARVRG GEGTG YFVDF SVRNCPRHFF PRHPNVFGFC RADLFYDVEA LDLESPKNLV INCEVFDPQE HENINGVPPH
 LGHPFHWGGH ERSSTTKPPF KPHGSRDHHH PHKPHEHGPP PPPDERDHS GPPLPQGPPP LLPMSCSSCQ HATFGTNGAQ
 RHSHNNSSD LHPHKHHSHE QHPHGHHPHA HHPHEHDTHR QHPHGHHPHG HHPHGHHPHG HHPHGHHPHC HDFQDYGPCD
 PPPHNQGHCC HGHGPPPGHL RRRGPGKGPR PFHCRQIGSV YRLPPLRKGE VLPLPEANFF SFPLPHHKHP LKPDNQPFPPQ
 SVSESCPGKF KSGFPQVSMF FTHTFPK

Storage & Handling:

Handling: Centrifuge vial prior to opening. Do not vortex after reconstitution. Avoid repeated freeze-thaw cycles.

Reconstitution: Initially reconstitute in water to 0.1-1.0 mg/ml. Store at 2°C to 8°C for up to 1 week or prepare for extended storage.

Extended Storage: After initial reconstitution, further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA). Store working aliquots at -20°C to -80°C.

Storage/Stability:	Product Form	Temperature	Storage Time
	Lyophilized	-20°C to -80°C	December 2027
	Lyophilized	4°C	3 months
	Lyophilized	Room Temperature	1 month
	Reconstituted	2°C to 8°C	1 week
	Extended Storage	-20°C to -80°C	3 months

Specifications:

Formulation: Sterile filtered through a 0.2-micron filter. Lyophilized from 10mM Sodium Phosphate, pH 7.5.

Authenticity: Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Purity: ≥ 90% by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg).

Protein Content: Verified by UV Spectroscopy and/or SDS-PAGE gel.

Biological Activity: Measured by its ability to support adhesion of Con-A activated MOLT-4 cells to the Recombinant Human HPRG-coated surface. The ED₅₀ for this effect is 1.5-2.0 μg/ml.

Usage: Not for human use.

Country of Origin: USA



Quality Assurance Representative