

Recombinant Human HSPG2 Protein, His-Tagged

Cat. No. HSPG2-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSPG2 protein, N-His-tagged, was expressed in E. coli cell
Species	Human
Source	E.coli
Description	This gene encodes the perlecan protein, which consists of a core protein to which three long chains of glycosaminoglycans (heparan sulfate or chondroitin sulfate) are attached. The perlecan protein is a large multidomain proteoglycan that binds to and cross-links many extracellular matrix components and cell-surface molecules. It has been shown that this protein interacts with laminin, prolargin, collagen type IV, FGFBP1, FBLN2, FGF7 and transthyretin, etc., and it plays essential roles in multiple biological activities. Perlecan is a key component of the vascular extracellular matrix, where it helps to maintain the endothelial barrier function. It is a potent inhibitor of smooth muscle cell proliferation and is thus thought to help maintain vascular homeostasis. It can also promote growth factor (e.g., FGF2) activity and thus stimulate endothelial growth and re-generation. It is a major component of basement membranes, where it is involved in the stabilization of other molecules as well as being involved with glomerular permeability to macromolecules and cell adhesion. Mutations in this gene cause Schwartz-Jampel syndrome type 1, Silverman-Handmaker type of dyssegmental dysplasia, and tardive dyskinesia. Alternative splicing of this gene results in multiple transcript variants.
Cytogenetics	1p36.12

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Refseq Size	14294
Refseq ORF	13176
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Storage Buffer	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1% Sarkosyl.
Storage	Store at -80°C.
Concentration	>50 ug/mL as determined by microplate BCA method
Molecular Mass	27.7 kDa
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	HSPG2 heparan sulfate proteoglycan 2 [Homo sapiens (human)]
Official Symbol	HSPG2
Synonyms	PLC; SJA; SJS; HSPG; SJS1; PRCAN
Gene ID	3339
mRNA Refseq	NM_001291860.2
Protein Refseq	NP_001278789.1

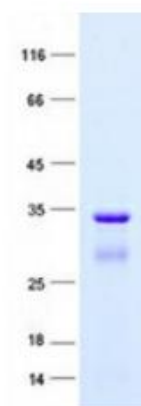
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID P98160

MIM 142461



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA