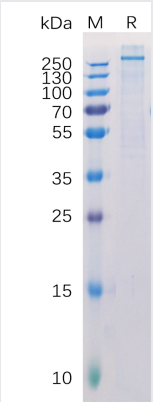
CSPG4 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CSPG4, Recombinant Protein
Full Product Name	Human CSPG4 Protein, His Tag
Product Gene Name	CSPG4 recombinant protein
Product Synonym Names	CSPG4A; HMW-MAA; MCSP; MCSPG; MEL-CSPG; MSK16; NG2
Sequence	CSPG4 (Ala30-Ser 2224) + 6×His tag
Host	HEK293 cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.
Purity/Purification	>95% as determined by SDS-PAGE and Coomassie blue staining
Preparation and Storage	Store at -20°C to -70°C in lyophilized state. After reconstitution, store the stock solution at -80°C immediately and avoid repeated freeze-thaw cycles! Store at -80°C for 3 months under sterile conditions after reconstitution.
Molecular Weight	The protein has a predicted molecular mass of 237.7 kDa after removal of the signal peptide.
OMIM	601172
3D Structure	ModBase 3D Structure for Q6UVK1
pH	7.4 ± 0.5
Tag	C-6xHis tag
Reconstitution	1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5 min at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube. 2. Dissolved lyophilized protein sample in sterile and low endotoxin water based on the recommended volume: 200 ul. 3. After adding sterile water, cover the lid and mix them by gently tapping the tube for 5-10 times. Note: Do not vortex or vigorously pipette the sample.
Related Product Information for CSPG4 recombinant protein	Recombinant Human CSPG4 Protein with C-terminal 6xHis-tag A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of CSPG4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CSPG4 purchase	MBS188241 is a recombinant protein targeting CSPG4. Also known as Human CSPG4 Protein, His Tag. Host: HEK293 cells.



SDS-Page of CSPG4 recombinant protein

Figure 1. Human CSPG4 Protein, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSPG4. It may not necessarily be applicable to this product.

NCBI GI #	296434468
NCBI GeneID	1464
NCBI Accession #	Q6UVK1.2
UniProt Primary Accession #	Q6UVK1
UniProt Secondary Accession #	Q92675; D3DW77
UniProt Related Accession #	Q6UVK1
NCBI Official Full Name	Chondroitin sulfate proteoglycan 4
NCBI Official Synonym Full Names	chondroitin sulfate proteoglycan 4
NCBI Official Symbol	CSPG4
NCBI Official Synonym Symbols	NG2; MCSP; MCSPG; MSK16; HMW-MAA; MEL-CSPG
UniProt Protein Name	Chondroitin sulfate proteoglycan 4
UniProt Synonym Protein Names	Chondroitin sulfate proteoglycan NG2; Melanoma chondroitin sulfate proteoglycan; Melanoma-associated chondroitin sulfate proteoglycan
Protein Family	Chondroitin sulfate proteoglycan
UniProt Gene Name	CSPG4
UniProt Synonym Gene Names	MCSP
UniProt Entry Name	CSPG4_HUMAN
NCBI Protein Information	chondroitin sulfate proteoglycan 4; chondroitin sulfate proteoglycan NG2; melanoma chondroitin sulfate proteoglycan; melanoma-associated chondroitin sulfate proteoglycan; chondroitin sulfate proteoglycan 4 (melanoma-associated)
NCBI Summary for CSPG4	A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells. [provided by RefSeq, Jul 2008]

UniProt Comments for CSPG4	NG2: a transmembrane chondrotin sulfate proteoglycan expressed on several types of immature progenitor cells and human malignant melanoma cells. Plays a role in cell proliferation and motility of endothelial cells during microvascular morphogenesis. May also inhibit neurite outgrowth and growth cone collapse during axon regeneration. Cell surface receptor for collagen alpha 2(VI) which may confer cells ability to migrate on that substrate. May regulate MPP16-dependent degradation and invasion of type I collagen participating to melanoma cells invasion properties. Functions also as a signal transducing protein by binding through its cytoplasmic C-terminus scaffolding and signaling proteins. May promote retraction fiber formation and cell polarization through Rho GTPase activation. May stimulate alpha-4, beta-1 integrin-mediated adhesion and spreading by recruiting and activating a signaling cascade through Cdc42, ACK1 and P130Cas. May activate FAK and ERK signaling cascades. PKC-alpha-mediated NG2 phosphorylation may be a key step for initiating cell polarization and motility. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 15q24.2 Cellular Component: lysosomal lumen; cell surface; focal adhesion; integral to plasma membrane; Golgi lumen; apical plasma membrane; extracellular region Molecular Function: signal transducer activity; protein kinase binding Biological Process: chondroitin sulfate biosynthetic process; glycosaminoglycan metabolic process; activation of MAPK activity; tissue remodeling; pathogenesis; glial cell migration; dermatan sulfate biosynthetic process; chondroitin sulfate metabolic process; cell proliferation; positive regulation of peptidyl-tyrosine phosphorylation; carbohydrate metabolic process; chondroitin sulfate catabolic process; angiogenesis; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on CSPG4	**1.** Reduced promoter methylation and increased expression of CSPG4 are associated with head and neck squamous cell carcinomas.
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