

Recombinant Syndecan 4

Cat. No. SDC4-4631H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SDC4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids (19-145a.a.) and having a molecular mass of 13.9 kDa. SDC4 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	19-145 a.a.
Description	Syndecan-4 is a type I integral membrane heparan sulfate proteoglycan (HSPG), which was originally isolated from cloned rat microvascular endothelial cells as an antithrombin-binding molecule, and is now known to be a member of the syndecan family. Syndecan-4 binds to basic fibroblast growth factor (bFGF), midkine, and tissue factor pathway inhibitor via its heparan sulfate chains, and is thought to be involved in various biologic functions such as signaling of bFGF, anticoagulation, and focal adhesion formation. A previous study demonstrated that syndecan-4 is expressed in various tissues, and its level of expression in the kidney is stronger than those of other syndecan family members. Thus, syndecan-4 is thought to play certain roles in maintaining renal function. Moreover, it has been reported that proteoglycans, especially sulfated proteoglycans, are involved in organogenesis of the kidney.
Form	SDC4 solution containing 20mM Tris pH-8, and 10% glycerol.
Purity	Greater than 85% as determined by SDS-PAGE.

 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

Physical Appearance	Sterile filtered colorless solution.
Amino acid sequence	MESIRETEVI DPQDLLEGY FSGALPDDDED VVGPGQESDD FELSGSGDLD DLED SMIGPE VVHPLVPLDN HIPERAGSGS QVPTEPKKLE ENEVIPKRIS PVEESEDVSN KVSMSSSTVQG SNIFERTE.
Storage	SDC4 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Pathways	Cell adhesion molecules (CAMs); ECM-receptor interaction
GENE INFORMATION	
Gene Name	SDC4 syndecan 4 [Homo sapiens]
Official Symbol	SDC4
Synonyms	syndecan 4; SYND4; MGC22217; SDC4; syndecan 4; Amphiglycan; amphiglycan; ryudocan; ryudocan amphiglycan; ryudocan core protein; syndecan 4; syndecan proteoglycan 4; OTTHUMP00000031788; syndecan 4 (amphiglycan, ryudocan)
Gene ID	6385
mRNA Refseq	NM_002999
Protein Refseq	NP_002990
MIM	600017
UniProt ID	P31431

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Chromosome Location	20q12
Function	cytoskeletal protein binding; molecular_function; thrombospondin receptor activity

PDB rendering based on 1ejp.

