Recombinant Human Syndecan 4, Fc Chimera

Cat. No. SDC4-2425H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain of human syndecan-4 (aa 1-145) produced in*HEK 293 cells*is fused at the C-terminus to the Fc portion of human IgG1.
Species	Human
Source	Human Cells
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.
Source/Host	HEK 293 cells.
Concentration	1mg/ml.
Purity	≥90% (SDS-PAGE).

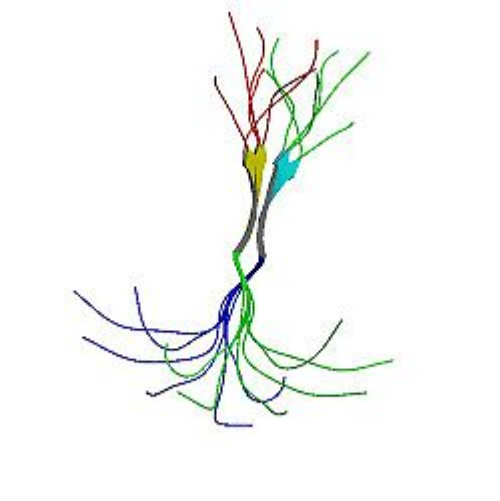
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Endotoxin Content	<0.1EU/μg protein (LAL-test).
Formulation	Liquid. 0.2μm-filtered solution in PBS, pH 7.2.
Long Term Storage	-20°C.
Use/Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Handling	After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	SDC4 syndecan 4 [Homo sapiens]
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
Chromosome Location	20q12

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Pathway	Cell adhesion molecules (CAMs); ECM-receptor interaction
Function	cytoskeletal protein binding; molecular_function; thrombospondin receptor activity
Rendering based on 1r1h.	

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