

Active Recombinant Human Syndecan 2, His-tagged

Cat. No. SDC2-501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SDC2 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Glu19-Glu144.
Species	Human
Source	Mammalian Cells
Protein Length	19-144 a.a.
Description	SDC2, previously known as fibroglycan or heparan sulfate proteoglycan, is a member of the syndecan family of Type 1 transmembrane proteins capable of carrying heparan sulfate (HS) and chondroitin sulfate glycosaminoglycans. The four vertebrate syndecans show conserved cytoplasmic domains and divergent extracellular portions (except for GAG attachment sites). Among the Syndecans, SDC2 is most similar to SDC4.
Form	Lyophilized from a 0.2 µm filtered solution in Tris-Citrate and NaCl.
N-terminal Sequence	Glu19
Molecular Weight	14.8 kDa
Activity	Measured by its binding ability in a functional ELISA. Immobilized rhSDC2 at 200 ng/mL (100 µL/well) can bind rhFGF basic with a linear range of 0.1-10 ng/mL

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	35-45kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/ mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	SDC2 syndecan 2 [Homosapiens]
Official Symbol	SDC2
Synonyms	SDC2; syndecan 2; HSPG; CD362; HSPG1; SYND2; syndecan-2; fibroglycan; syndecan proteoglycan 2; heparan sulfate proteoglycan core protein; cell surface-associated heparan sulfate proteoglycan 1; heparan sulfate proteoglycan 1, cell surface-associated; OTTHUMP00000227223; OTTHUMP00000227224; OTTHUMP00000227225; OTTHUMP00000227226; OTTHUMP00000227227; OTTHUMP00000227228; CD362 antigen
Gene ID	6383
mRNA Refseq	NM_002998
Protein Refseq	NP_002989

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MIM	142460
UniProt ID	P34741
Chromosome Location	8q22-q23
Pathway	Cell adhesion molecules (CAMs);ECM-receptor interaction; FGF signaling pathway; Malaria; Proteoglycansyndecan-mediated signaling events; Syndecan-2-mediated signaling events;TGF-beta Receptor Signaling Pathway
Function	PDZ domain binding; cytoskeletal proteinbinding; protein binding

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