

## Active Recombinant Human Syndecan 2, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SDC2 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Glu19-Glu144.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	19-144 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in Tris-Citrate and NaCl.
<b>N-terminal Sequence</b>	Glu19
<b>Molecular Weight</b>	14.8 kDa
<b>Activity</b>	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

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	35-45kDa, reducing conditions.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 µg/ mL in sterile PBS
<b>Storage</b>	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

<b>Gene Name</b>	SDC2 syndecan 2 [ Homosapiens ]
<b>Official Symbol</b>	SDC2
<b>Synonyms</b>	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
<b>Gene ID</b>	6383
<b>mRNA Refseq</b>	NM_002998
<b>Protein Refseq</b>	NP_002989

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<b>MIM</b>	142460
<b>UniProt ID</b>	P34741
<b>Chromosome Location</b>	8q22-q23
<b>Pathway</b>	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
<b>Function</b>	PDZ domain binding; cytoskeletal proteinbinding; protein binding

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