

Active Recombinant Human Syndecan 3, His-tagged

Cat. No. SDC3-504H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SDC3 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Gln48-Lys383.
Species	Human
Source	Mammalian Cells
Protein Length	48-383 a.a.
Description	SDC3, also called N-syndecan, is one of four vertebrate syndecans that are principal carriers of heparan sulfate and chondroitin sulfate glycosaminoglycans. These type 1 transmembrane proteins show conserved cytoplasmic domains and divergent extracellular domains. Human SDC3 is synthesized as a 442 amino acid (aa) core protein with a 44 aa signal sequence, a 343 aa extracellular domain, a 21 aa transmembrane region and a 34 aa cytoplasmic tail with a binding site for PDZ domains.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Gln48 predicted
Molecular Weight	35.5 kDa
Activity	Measured by the ability of the immobilized protein to inhibit the adhesion of SAOS2 human osteosarcoma cells to human Fibronectin. When 5 x 10 ⁴ cells/well are

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added to human SDC3 and human Fibronectin (0.5 µg/mL) coated plates, cell adhesion is blocked in a dose dependent manner after 1 hour at 37°C. The ED50 for this effect is typically 2.5-10 µg/mL.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 100-150kDa, reducing conditions.

Purity >85%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution 200 µg/ mL in 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 SDC3 syndecan 3 [Homosapiens]

Official Symbol SDC3

Synonyms SDC3; syndecan 3; SDCN; SYND3; syndecan-3; N-syndecan; syndecan neural type; syndecan proteoglycan 3; KIAA0468; OTTHUMP00000040577; syndecan 3 (N-syndecan)

Gene ID 9672

mRNA Refseq NM_014654

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Protein Refseq	NP_055469
MIM	186357
UniProt ID	O75056
Chromosome Location	1pter-p22.3
Pathway	Cell adhesion molecules (CAMs);ECM-receptor interaction; Malaria; Proteoglycan syndecan-mediated signalingevents; Syndecan-3-mediated signaling events
Function	cytoskeletal protein binding

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