SDC4
Recombinant Human Syndecan-4

Catalog No.	CSI20111A	**Quantity:**	10 µg
	CSI20111B		50 µg
	CSI20111C		1.0 mg

Alternate Names: SYND4, SDC4

Description: Recombinant Human Syndecan-4 is a single non-glycosylated polypeptide chain containing 127 amino acids.
Background: Syndecan-4 (SDC-4) also known as amphiglycan or ryudocan, 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 have two conserved cytoplasmic domains and divergent extracellular portions, except for HS attachment sites. Syndecan4 is the most similar to Syndecan2, but is more universally expressed and is found in virtually every cell type. Expression can be upregulated by TGFβ2 and in response to mechanical stress in smooth muscle, wound healing, arterial injury or acute myocardial infarction, probably in response to at least one inflammatory mediator. Human Syndecan4 ECD shares approximately 79%, 78% and 81% aa identity with mouse, rat and porcine Syndecan4 ECD, respectively.

Gene ID: 6385

Source: *E. coli*

Molecular Weight: Approximately 13.9 kDa, but it migrates with an apparent molecular mass of 22 kDa in SDS-PAGE.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Purity: >95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1EU/µg of rHuSDC-4 as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The specific activity is determined by binding ability in a functional ELISA. Immobilized rHuSDC-4 at 500 ng/ml (100 µl/well) can bind rHuFGF basic with a linear range of 0.1-10ng/ml.

Amino Acid Sequence: ESIRETEVID PQDLLEGRYF SGALPDDEDV VGPGQESDDF ELSGSGDLDD LEDSMIGPEV VHPLVPLDNH IPERAGSGSQ VPTEPKKLEE NEVIPKRISP VEESEDVSNK VSMSSTVQGS NIFERTE

Reconstitution: **Centrifuge vial prior to opening.** Reconstitute in sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and
stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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