

Syndecan-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70995
Synonyms:	Syndecan-2; SYND2; Fibroglycan; Heparan Sulfate Proteoglycan Core Protein; HSPG; CD362; SDC2; HSPG1
Species:	Human
Source:	HEK293
Accession:	AAH49836.1 (E19-E144)
Gene ID:	6383
Molecular Weight:	25-40 kDa

PROPERTIES

AA Sequence	<p> E S R A E L T S D K D M Y L D N S S I E E A S G V Y P I D D D D Y A S A S G S G A D E D V E S P E L T T T R P L P K I L L T S A A P K V E T T T L N I Q N K I P A Q T K S P E E T D K E K V H L S D S E R K M D P A E E D T N V Y T E K H S D S L F K R T E </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-Citrate, 150 mM NaCl, pH 7.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Syndecan-2 is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. Syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. Syndecan-2 functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. Increased expression of Syndecan-2 may directly relate to loss of cell/substrate interactions and contact inhibition and contribute to both the tumorigenic and metastatic potential in cancer cells. Syndecan-2 is necessary for tumor angiogenesis that facilitates tumor growth and metastasis. Syndecan-2 is a novel marker of hematopoietic stem cell (HSC) that regulates HSC repopulating capacity through control of expression of Cdkn1c (p57) and HSC quiescence. In addition, Syndecan-2 inhibits</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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