

Syndecan-1/CD138 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77851
Synonyms:	Syndecan-1; SYND1; CD138; SDC1; SDC; SDC1
Species:	Human
Source:	HEK293
Accession:	P18827 (Q23-G254)
Gene ID:	6382
Molecular Weight:	70-100 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. When immobilized Human Syndecan-1, hFc Tag at 1 µg/ml (100 µl/Well), can bind Biotinylated Anti-Syndecan-1 Antibody, hFc Tag and the EC ₅₀ is 18 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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.
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	Syndecan-1/CD138 Protein is a cell surface proteoglycan characterized by the presence of heparan sulfate and chondroitin sulfate, which enables its role in connecting the cytoskeleton to the interstitial matrix. It collaborates with SDCBP and PDCC6IP to regulate exosome biogenesis. Furthermore, Syndecan-1/CD138 Protein has the ability to induce its own expression not only in dental mesenchymal cells but also in adjacent dental epithelial cells through an MSX1-mediated pathway. It interacts with CDCP1 and TIAM1, specifically through its C-terminus and the PDZ domain of TIAM1, respectively. Additionally, Syndecan-1/CD138 Protein interacts with MDK, facilitating its involvement in various cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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