

Syndecan-1/CD138 Protein, Rat (P.pastoris, His)

Cat. No.:	HY-P71782
Synonyms:	Sdc1; Synd1; Syndecan-1; SYND1; CD antigen CD138
Species:	Rat
Source:	P. pastoris
Accession:	P26260 (23Q-257G)
Gene ID:	25216
Molecular Weight:	Approximately 26.5 kDa

PROPERTIES

AA Sequence	<div> <div>Q I V T A N V P P E</div> <div>S T W K D V W L L T</div> <div>E P V A H V E A E P</div> <div>A R A T T A Q A S V</div> <div>V E D G G T S V I K</div> <div>T A V A G V E P D L</div> </div> <div> <div>D Q D G S G D D S D</div> <div>A T P T A P E P T S</div> <div>D F T A R D K E K E</div> <div>T S H P H G D V Q P</div> <div>E V V E D E T T N Q</div> <div>R N Q S P V D E G A</div> </div> <div> <div>N F S G S G T G A L</div> <div>R D T E A T L T S I</div> <div>A T T R P R E T T Q</div> <div>G L H E T L A P T A</div> <div>L P A G E G S G E Q</div> <div>T G A S Q G L L D R</div> </div> <div> <div>P D M T L S R Q T P</div> <div>L P A G E K P E E G</div> <div>L P V T Q Q A S T A</div> <div>P G Q P D H Q P P S</div> <div>D F T F E T S G E N</div> <div>K E V L G</div> </div>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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	<p>Syndecan-1/CD138 Protein is a cell surface proteoglycan characterized by the presence of both heparan sulfate and chondroitin sulfate, establishing a link between the cytoskeleton and the interstitial matrix. It plays a role in regulating exosome biogenesis in collaboration with SDCBP and PDCD6IP. Moreover, Syndecan-1/CD138 has the capacity to induce its own expression in dental mesenchymal cells and neighboring dental epithelial cells through an MSX1-mediated pathway. It interacts with CDCP1 and associates with TIAM1 via its C-terminus and the PDZ domain of TIAM1. Additionally, Syndecan-1/CD138 engages in an interaction with Midkine (MDK).</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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