

Syndecan-1 Protein, Human, Recombinant (aa 23-254, His)

General Information

Synonyms:	Syndecan-1;CD138;SDC;SYND1;SDC1
Protein Construction:	Gln23-Gly254
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH08765
Molecular Weight:	25 kDa (predicted). Due to glycosylation, the protein migrates to 50-80 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Syndecan-1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Syndecan-1 Antibody, hFc Tag with the EC50 of 28.2ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Liver diseases such as liver cirrhosis, primary and metastatic liver cancers are still a major medical challenge. Syndecan-1 is one of the most important proteoglycans in the liver. Syndecan-1 is normally expressed on the surfaces of hepatocytes and cholangiocytes. Due to liver diseases the amount of syndecan-1 increases in the liver.

Reference

Regős E, et al. Syndecan-1 in Liver Diseases. Pathol Oncol Res. 2020 Apr;26(2):813-819. doi: 10.1007/s12253-019-00617-0. Epub 2019 Mar 2. PMID: 30826971; PMCID: PMC7242248.

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