

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

General Information

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| Synonyms: | CD138;SDC1;SYND1;Syndecan-1;SDC |
| Protein Construction: | Gln23-Gly254 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | AAH08765 |
| Molecular Weight: | 50.6 kDa (predicted). Due to glycosylation, the protein migrates to 70-100 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | Immobilized Human Syndecan-1, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-Syndecan-1 Antibody, hFc Tag with the EC50 of 19.2ng/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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