

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

### General Information

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

Biological Activity: Immobilized Human Syndecan-1, hFc Tag at 1 $\mu$ g/ml (100 $\mu$ l/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 EU/ $\mu$ g by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22  $\mu$ m 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  $\mu$ g/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.

#### Shipping:

In general, Lyophilized powders are shipping with blue 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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Tel:781-999-4286 E\_email:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481