

Syndecan-1 Protein, Rabbit, Recombinant (His)

General Information

Synonyms:	SDC1;SYND1;SDC;CD138;Syndecan 1
Protein Construction:	Leu23-Gly254
Species:	Rabbit
Expression Host:	HEK293 Cells
Accession:	XP_008252990.1
Molecular Weight:	24.57 kDa (predicted). Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
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

CD138 (syndecan-1, Sdc-1) is a member of the syndecan family that comprises heparan sulfate proteoglycans. CD138 is significant for cell-cell and cell-matrix interactions. CD138 plays a crucial role in carcinogenesis and is an attractive target for anticancer treatment with heparanase inhibitors and anti-CD138 antibodies for immunotherapy.

Reference

Palaiologou M, et al. CD138 (syndecan-1) expression in health and disease. *Histol Histopathol.* 2014 Feb;29(2): 177-89. doi: 10.14670/HH-29.177. Epub 2013 Oct 23. PMID: 24150912.

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