

# Human MANSC1 Protein

Cat. No. MAN-HM1C1

## Description

<b>Source</b>	Recombinant Human MANSC1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln27-Leu385.
<b>Accession</b>	Q9H8J5
<b>Molecular Weight</b>	The protein has a predicted MW of 39.9 kDa. Due to glycosylation, the protein migrates to 113-116 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

MANSC1 contains 1 MANSC domain. MANSC is a seven-cysteine-containing domain present in animal membrane and extracellular proteins. MANSC (motif at N terminus with seven cysteines) is a novel domain with a well-conserved seven-cysteine motif that is present at the N terminus of membrane and extracellular proteins, including low-density lipoprotein receptor-related protein 11 (LRP-11), hepatocyte growth factor activator inhibitor 1 (HAI-1) and some uncharacterized proteins encoded by multicellular animals from Mollusca to Chordata. The MANSC domain in HAI-2 might function through binding with hepatocyte growth factor activator and matriptase[1].

## Assay Data

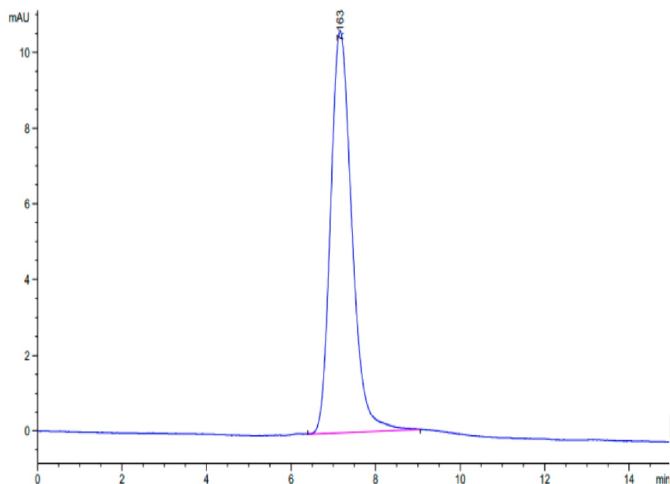
### Tris-Bis PAGE



Human MANSC1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

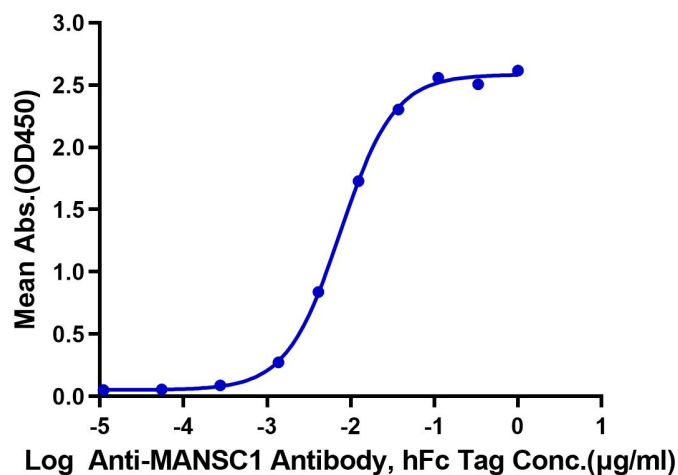


The purity of Human MANSC1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human MANSC1, His Tag ELISA

0.02µg Human MANSC1, His Tag Per Well



Immobilized Human MANSC1, His Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Anti-MANSC1 Antibody, hFc Tag with the EC50 of 7.5ng/ml determined by ELISA.