

# Human CD44 Protein

Cat. No. CDX-HM144

## Description

<b>Source</b>	Recombinant Human CD44 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln21-Pro220 & Gln386-Ala427.
<b>Accession</b>	P16070-1
<b>Molecular Weight</b>	The protein has a predicted MW of 27.91 kDa. Due to glycosylation, the protein migrates to 45-68 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

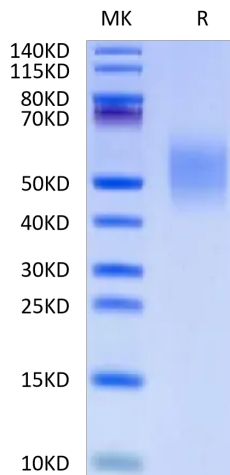
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

CD44 is a hyaluronan binding cell surface signal transducing receptor that influences motility, cell survival and proliferation as well as the formation of tumor microenvironment. CD44 contains two variable regions encoded by variable exons. Alternative splicing, which is often deregulated in cancer, can produce various isoforms of CD44 with properties that may have different tissue specific effects and therefore even diverse effects on cancer progression

## Assay Data

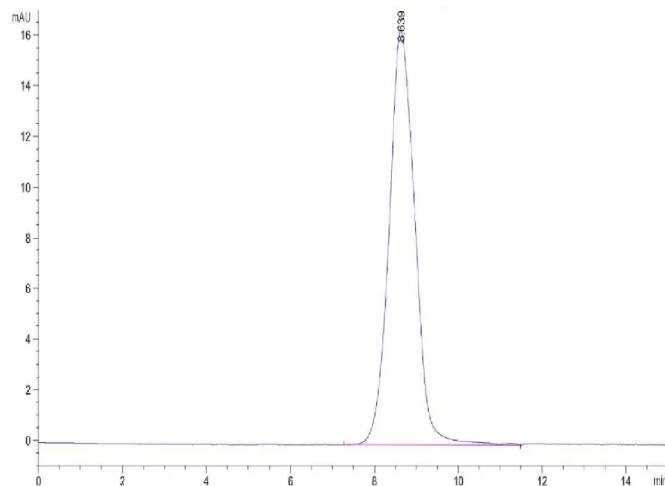
### Tris-Bis PAGE



Human CD44 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

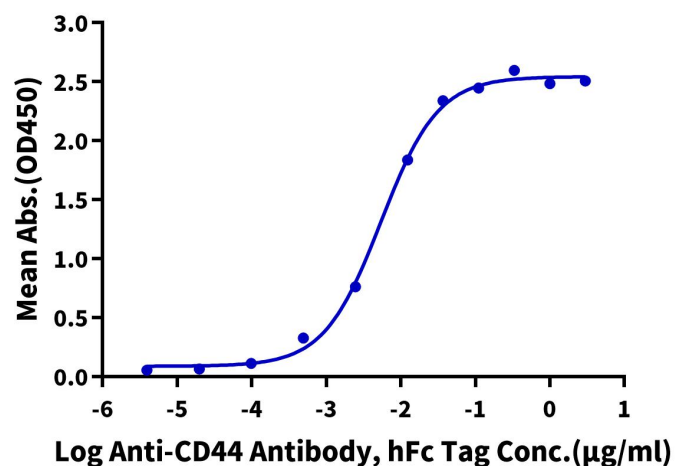
Assay Data



The purity of Human CD44 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human CD44, His Tag ELISA**  
0.05µg Human CD44, His Tag Per Well



Immobilized Human CD44, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD44 Antibody, hFc Tag with the EC50 of 5.5ng/ml determined by ELISA.