

# Biotinylated Human DDR1 Protein, Ultra Low Endotoxin

Cat. No. DDR-HM4R1B-UL

## Description

<b>Source</b>	Recombinant Biotinylated Human DDR1 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Asp21-Ala417.
<b>Accession</b>	Q08345-1
<b>Molecular Weight</b>	The protein has a predicted MW of 46.93 kDa. Due to glycosylation, the protein migrates to 60-75 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

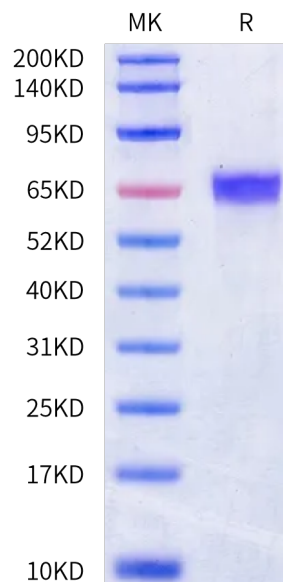
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Discoidin domain receptor1 (DDR1) is a collagen activated receptor tyrosine kinase and an attractive anti-fibrotic target. Its expression is mainly limited to epithelial cells located in several organs including skin, kidney, liver and lung. DDR1's biology is elusive, with unknown downstream activation pathways; however, it may act as a mediator of the stromal-epithelial interaction, potentially controlling the activation state of the resident quiescent fibroblasts.

## Assay Data

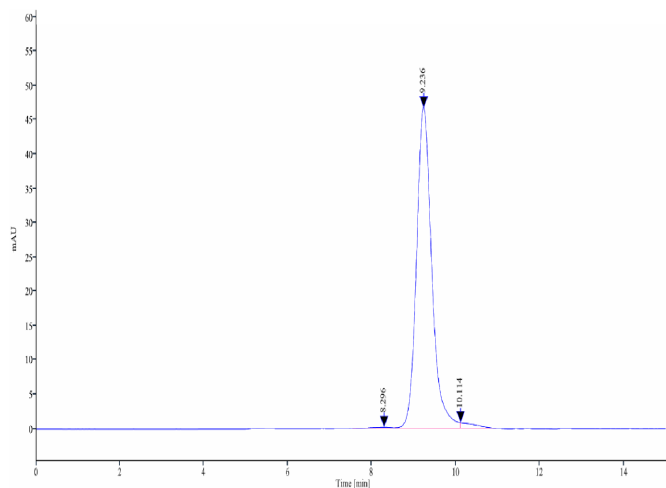
### Bis-Tris PAGE



Biotinylated Human DDR1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

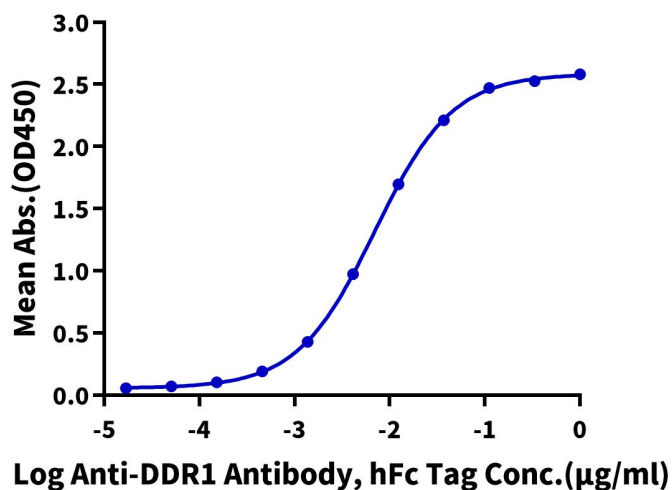


The purity of Biotinylated Human DDR1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human DDR1, His Avi Tag ELISA**

0.05µg Biotinylated Human DDR1, His Avi Tag Per Well



Immobilized Biotinylated Human DDR1, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-DDR1 Antibody, hFc Tag with the EC50 of 7.0ng/ml determined by ELISA.