

# Human DDR1 Protein, Ultra Low Endotoxin

Cat. No. DDR-HM2R1-UL

## Description

<b>Source</b>	Recombinant Human DDR1 Protein is expressed from HEK293 with hFc (IgG1) 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 69.97 kDa. Due to glycosylation, the protein migrates to 80-100 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 > 90% as determined by HPLC

## Formulation and Storage

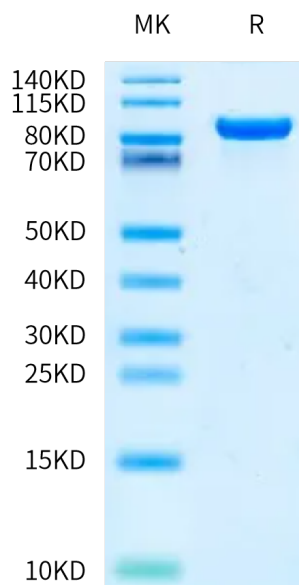
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</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

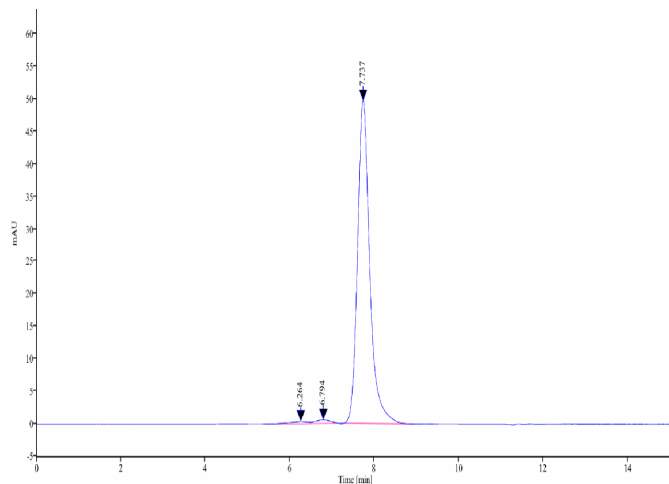
### Bis-Tris PAGE



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

### SEC-HPLC

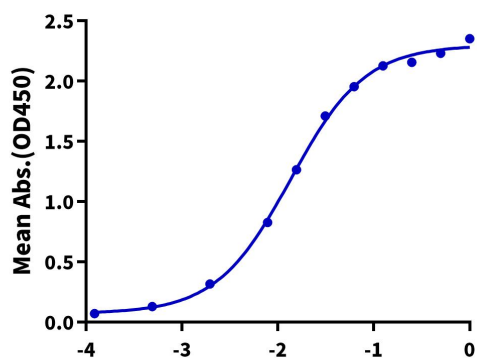
Assay Data



The purity of Human DDR1 is greater than 90% as determined by SEC-HPLC.

ELISA Data

**Human DDR1, hFc Tag ELISA**  
0.05µg Human DDR1, hFc Tag Per Well



Immobilized Human DDR1, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-DDR1 Antibody, hFc Tag with the EC50 of 13.6ng/ml determined by ELISA.