Human DDR1 Protein

Cat. No. DDR-HM1R1

Description

Source	Recombinant Human DDR1 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asp21-Ala417.
Accession	Q08345-1
Molecular Weight	The protein has a predicted MW of 45.1 kDa. Due to glycosylation, the protein migrates to 63-67 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

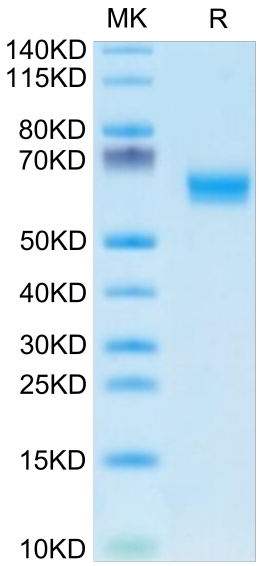
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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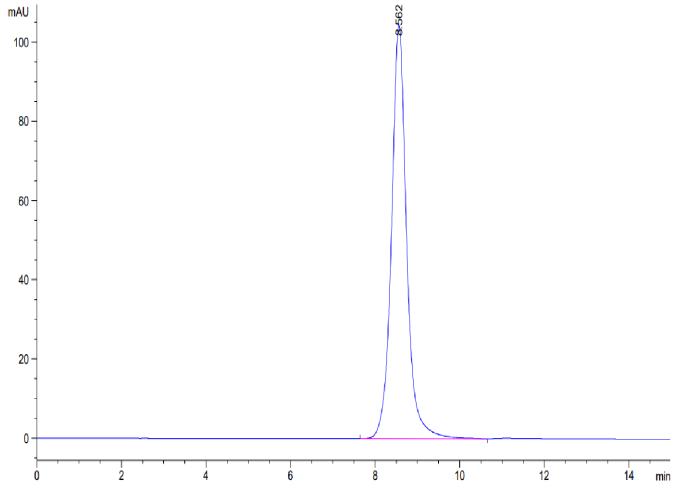
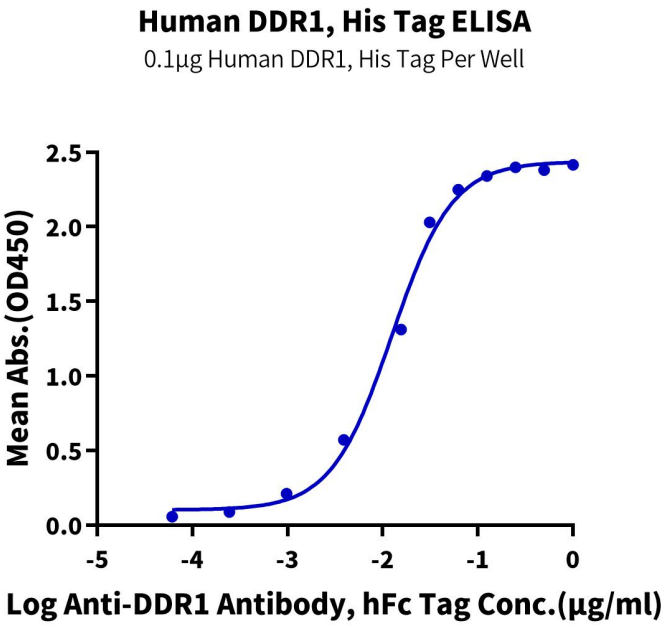
Assay Data



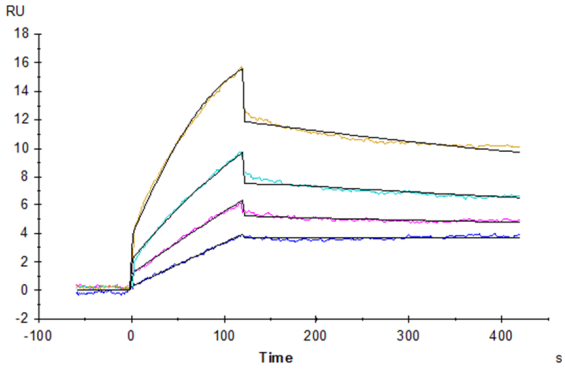
The purity of Human DDR1 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human DDR1, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-DDR1 Antibody, hFc Tag with the EC50 of 12.5ng/ml determined by ELISA (QC Test).

SPR Data



Human DDR1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Native Human Collagen I protein with an affinity constant of 0.806 nM as determined in SPR assay (Biacore T200).