

# Human ficolin 1/FCN1 Protein

Cat. No. FCN-HM101

## Description

<b>Source</b>	Recombinant Human ficolin 1/FCN1 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala30-Ala326.
<b>Accession</b>	NP_001994.2
<b>Molecular Weight</b>	The protein has a predicted MW of 33.11 kDa. Due to glycosylation, the protein migrates to 34-38 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu$ g by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

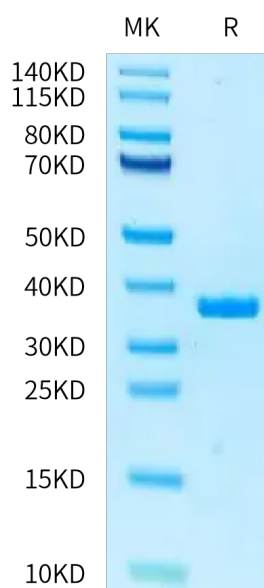
<b>Formulation</b>	Lyophilized from 0.22 $\mu$ m filtered solution in PBS, 350mM NaCl, 200mM Arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The ficolins are members of a recently discovered family of host innate opsonins that can activate the lectin pathway of complement. The ficolins bind many ligands, although they are typically described as binding acetylated sugars. Ficolin-1 is the least-described of the Ficolins and is expressed by monocytes, granulocytes, and in the lungs. Ficolin-1 is found circulating at low concentrations in serum but is regarded primarily as a secretory molecule that exerts its function locally in inflamed tissues.

## Assay Data

### Bis-Tris PAGE



Human ficolin 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.