

# Human FOLR1 Protein

Cat. No. FOL-HM2R2



## Description

<b>Source</b>	Recombinant Human FOLR1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Arg25-Met233.
<b>Accession</b>	P15328
<b>Molecular Weight</b>	The protein has a predicted MW of 51.3 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 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

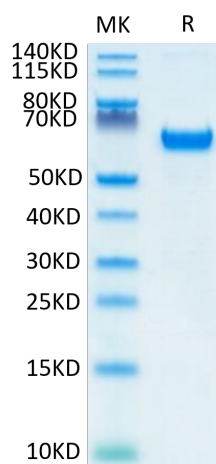
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

Folate Receptor 1 (FOLR1), also known as Folate Receptor alpha and Folate Binding Protein (FBP), is a 37 - 42 kDa protein that mediates the cellular uptake of folic acid and reduced folates. Dietary folates are required for many key metabolic processes including nucleotide and methionine synthesis, the interconversion of glycine and serine, and histidine breakdown. FOLR1 binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells. Has high affinity for folate and folic acid analogs at neutral pH.

## Assay Data

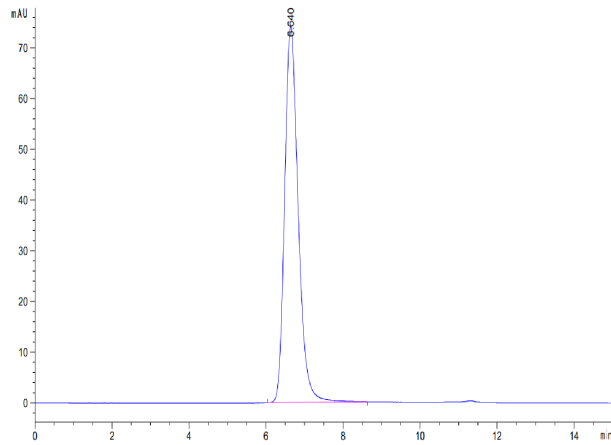
### Bis-Tris PAGE



Human FOLR1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

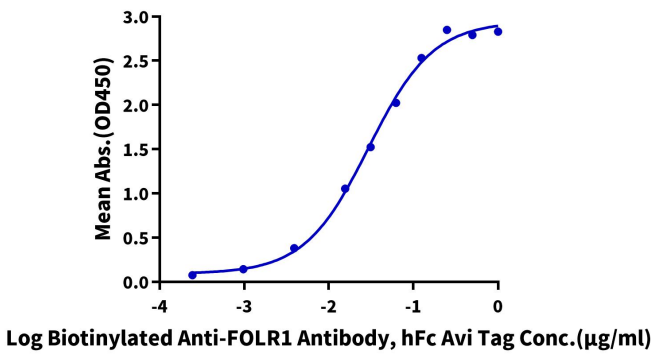


The purity of Human FOLR1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human FOLR1, His Tag ELISA**  
0.1µg Human FOLR1, His Tag Per Well



Immobilized Human FOLR1, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-FOLR1 Antibody, hFc Tag with the EC50 of 29.6ng/ml determined by ELISA.