

# 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 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

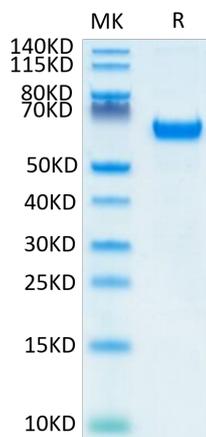
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

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.

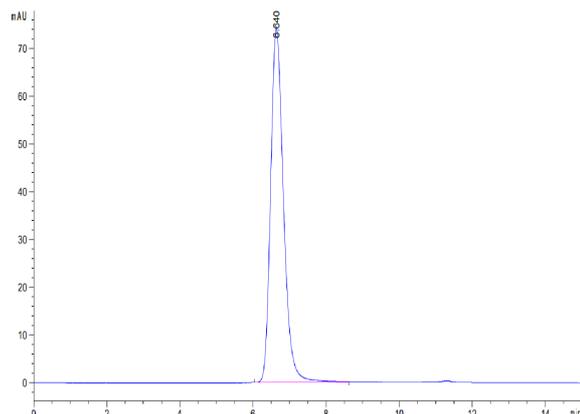
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



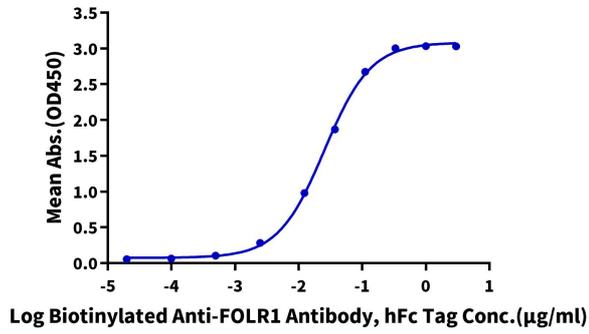
The purity of Human FOLR1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human FOLR1, hFc Tag ELISA**

0.05µg Human FOLR1, hFc Tag Per Well



Immobilized Human FOLR1, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-FOLR1 Antibody, hFc Tag with the EC50 of 25.4ng/ml determined by ELISA.