

# FITC-Labeled Human FOLR1 Protein

Cat. No. FOL-HM4R1F



## Description

|                  |                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant FITC-Labeled Human FOLR1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.                  |
|                  | It contains Arg25-Met233.                                                                                                          |
| Accession        | P15328                                                                                                                             |
| Molecular Weight | The protein has a predicted MW of 27.5 kDa. Due to glycosylation, the protein migrates to 37-47 kDa based on Bis-Tris PAGE result. |
| Wavelength       | Excitation Wavelength: 490 nm                                                                                                      |
|                  | Emission Wavelength: 520 nm                                                                                                        |
| 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

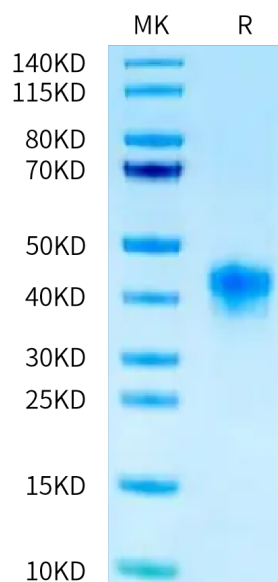
|             |                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation | Supplied as 0.22 µm filtered solution in PBS (pH 7.4).                                                                                                                          |
| Storage     | Valid for 6 months from date of receipt when stored at -80°C. 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



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

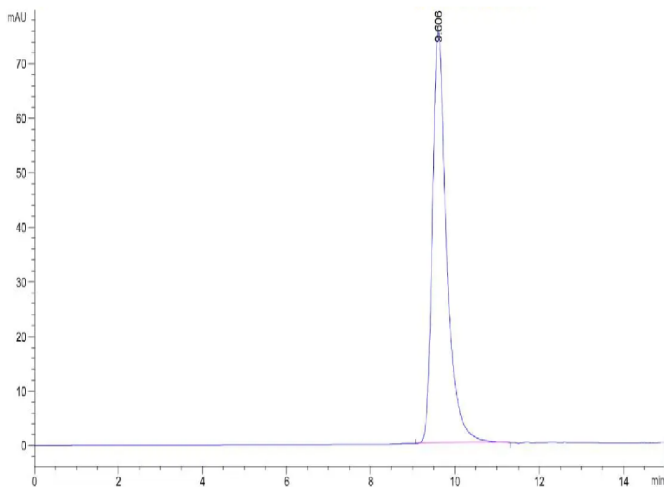
### SEC-HPLC

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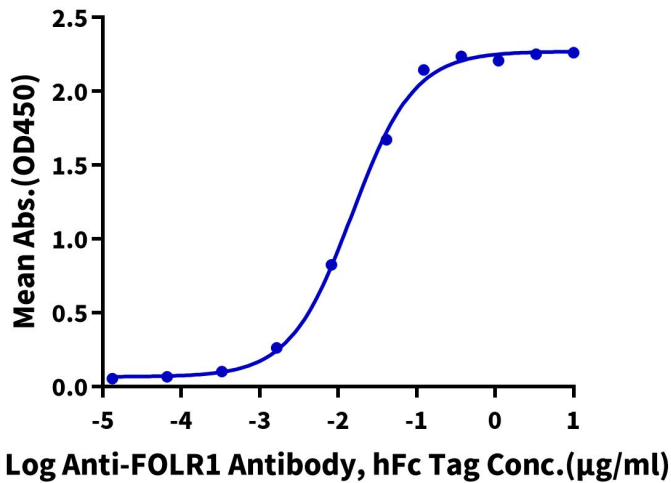
Assay Data



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

ELISA Data

FITC-Labeled Human FOLR1, His Tag ELISA  
0.05µg FITC-Labeled Human FOLR1, His Tag Per Well



Immobilized FITC-Labeled Human FOLR1, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-FOLR1 Antibody, hFc Tag with the EC50 of 15.0ng/ml determined by ELISA.