

# Recombinant Human FR-alpha/FOLR1 Protein

Catalog No.: RP01379 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 2348    | P15328     |

### Tags

C-His

### Synonyms

FOLR1;FBP;FOLR

## Product Information

| Source       | Purification       |
|--------------|--------------------|
| HEK293 cells | > 95% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 25.40 kDa     | 35-40 kDa   |

### Endotoxin

<1EU/ $\mu$ g


### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Folate Receptor 1 (FOLR1) is also known as Folate receptor alpha, Folate Binding Protein (FBP), FOLR, and is a member of the folate receptor (FOLR) family. Members of this gene family have a high affinity for folic acid and for several reduced folic acid derivatives, and mediate delivery of 5-methyltetrahydrofolate to the interior of cells. It is the most important subunit of Folate receptor and the alpha isoform has been shown to be selectively overexpressed in cancer types like breast and ovarian cancer compared to normal breast and ovarian epithelial cells. It was determined that Folate receptor  $\alpha$  exhibits a limited expression on the apical surfaces of the epithelial cells of normal lung, breast, thyroid, parathyroid, and kidney tissues. For their uptake of folate, normal cells rely almost exclusively on the reduced folate carrier, whereas many carcinomas and myeloid leukemia cells overexpress a high-affinity FR on their surfaces, perhaps reflecting their increased need for folate to support rapid cell division.

## Basic Information

### Description

Recombinant Human FR-alpha/FOLR1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg25-Met233) of human FOLR-1/FBP (Accession #NP\_000793.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

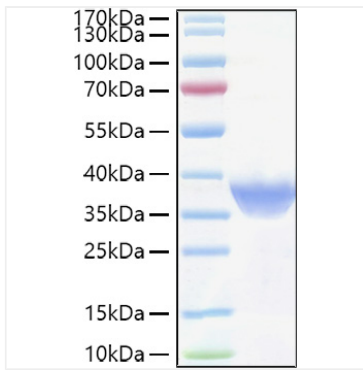
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human FR-alpha/FOLR1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-40kDa.