



# Recombinant Protein Technical Manual

## Recombinant Human FOLR1 Protein (His Tag)

RPES2974

### Product Data:

**Product SKU:** RPES2974

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** NP\_057937.1

### Protein Information:

**Molecular Mass:** 25.7 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Folate receptor alpha;FR-alpha;Adult folate-binding protein;FBP;Folate receptor 1;Folate receptor;Ovarian tumor-associated antigen MOv18;FOLR1;FBP;Folate Binding Protein;FOLR

## Immunogen Information:

**Sequence:** Arg25-Ser234

## Background:

Folate receptor alpha(FOLR) belongs to the folate receptor family, and is primarily expressed in tissues of epithelial origin. It is also expressed in kidney, lung and cerebellum. The secreted form is derived from the membrane-bound form either by cleavage of the GPI anchor, or/and by proteolysis catalyzed by a metalloprotease. FOLR1 binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells. It has high affinity for folate and folic acid analogs at neutral pH. Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release. It is required for normal embryonic development and normal cell proliferation.