

FOLR1 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	folate receptor 1 (adult);FBP;FOLR;Folate Binding Protein
Protein Construction:	Arg25-Ser234
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15328
Molecular Weight:	25.7 kDa (Predicted); 28-38 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Human FOLR1-His at 1 µg/ml (100 µl/well) can bind Anti-Human FOLR1 mAb. The ED50 of Anti-Human FOLR1 mAb is 0.626 ng/ml. Loaded Anti-Human FOLR1 mAb-Fc on Protein A Biosensor, can bind Human FOLR1-His with an affinity constant of 12.1 nM as determined in BLI assay.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

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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.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481