

FOLR1 Protein, Rhesus macaque, Recombinant (His)

General Information

Synonyms:	FR-alpha;Adult folate-binding protein;Ovarian tumor-associated antigen MOv18;FOLR1;Folate receptor;Folate receptor 1;FBP;FR- α ;Folate receptor α ;Folate receptor alpha
Protein Construction:	Arg25-Ser234
Species:	Rhesus
Expression Host:	HEK293 Cells
Accession:	F7BP60
Molecular Weight:	28-38 kDa (reducing condition)
AA Sequence:	Arg25-Ser234

QC Testing

Biological Activity:	Loaded Anti-Human FOLR1 mAb-Fc on Protein A Biosensor, can bind Rhesus Macaque FOLR1-His with an affinity constant of 38.2 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/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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