Data Sheet (Cat.No.TMPJ-00147)

FOLR1 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	Folate receptor 1;Folate receptor;Folate receptor alpha;FOLR1;FR-alpha;Adult folate-binding protein;FR-α;Folate receptor α;Ovarian tumor-associated antigen MOv18;FBP
Protein Construction:	Arg25-Ser234
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15328
Molecular Weight:	55-75 kDa (reducing condition)
AA Sequence:	Arg25-Ser234

QC Testing

Biological Activity:	Loaded Human FOLR1-Fc on APS Biosensor, can bind Anti-Human FOLR1 mAb with an affinity constant of 0.11 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping 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

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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