

## Recombinant Mouse Folr1 protein, Avi & His-tagged

Cat. No. Folr1-7816M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Biotinylated Mouse FOLR1, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 25 - Ser 232 (Accession # P35846-1). Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.

**Species** Mouse

**Source** HEK293

**ProteinLength** Thr 25 - Ser 232

**Description** 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. Mature FOLR1 is an N-glycosylated protein that is anchored to the cell surface by a GPI linkage. FOLR1 is predominantly expressed on epithelial cells and is dramatically upregulated on many carcinomas. FOLR1 is internalized to the endosomal system where it dissociates from its ligand before recycling to the cell surface. A soluble form of FOLR1 can be proteolytically shed from the cell surface into the serum and breast milk. Defects in FOLR1 are the cause of neurodegeneration due to cerebral folate transport deficiency (NCFTD). NCFTD is an autosomal recessive disorder resulting from brain-specific folate deficiency early in life.

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<b>Predicted N Terminal</b>	Thr 25
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 26.9 kDa. The protein migrates as 36 kDa and 44 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	Folr1 folate receptor 1 (adult) [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Folr1
<b>Synonyms</b>	FBP1; Folbp1; Folbp-1; FR-alpha; folate-binding protein 1; folate receptor alpha
<b>Gene ID</b>	14275
<b>mRNA Refseq</b>	NM_001252552.1

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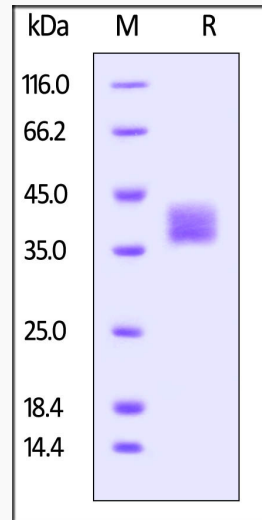
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Protein Refseq NP\_001239481.1

UniProt ID P35846

SDS-PAGE



Biotinylated Mouse FOLR1, His Tag on SDS-PAGE under reducing (R) condition.  
The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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