Recombinant Mouse FOLR1 protein, His-tagged

Cat. No. FOLR1-316M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse FOLR1 protein (Thr25-Ser232), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	208
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.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 26.2 kDa. The protein migrates as 35 kDa and 37

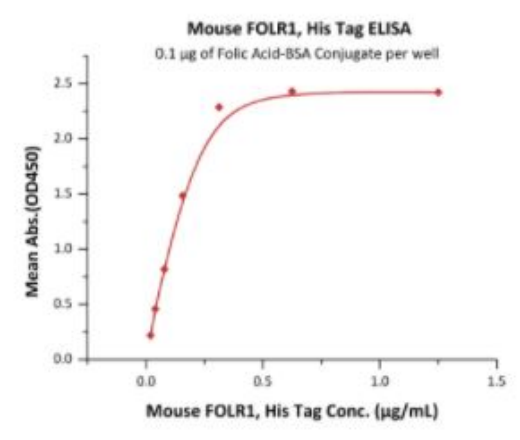
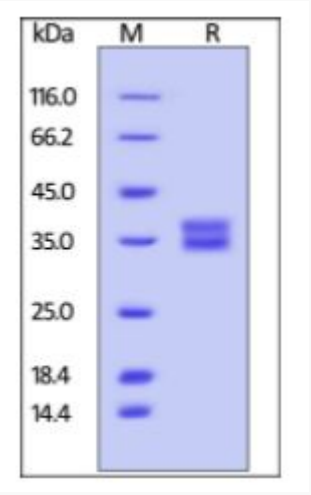
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	kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	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℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	FOLR1
Official Symbol	FOLR1
Synonyms	FOLR1; folate receptor 1 (adult); folate receptor alpha; FR-alpha; folate binding protein 1; folate-binding protein 1; FBP1; Folbp1; Folbp-1
Gene ID	14275
mRNA Refseq	NM_001252552
Protein Refseq	NP_001239481

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UniProt ID	P35846
Bioactivity-ELISA of FOLR1-316M	 Immobilized Folic Acid-BSA Conjugate at 1 μg/mL (100 μL/well) can bind Mouse FOLR1, His Tag with a linear range of 0.02-0.313 μg/mL (QC tested).
SDS-PAGE of FOLR1-316M	 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

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