

FOLR1 Protein, Human (209a.a, HEK293, His)

Cat. No.:	HY-P75774
Synonyms:	Folate receptor alpha; FR-alpha; FBP; FOLR1; FOLR
Species:	Human
Source:	HEK293
Accession:	P15328/NP_057937.1 (R25-M233)
Gene ID:	2348
Molecular Weight:	Approximately 37.45 kDa

PROPERTIES

AA Sequence	<pre> R I A W A R T E L L N V C M N A K H H K E K P G P E D K L H E Q C R P W R K N A C C S T N T S Q E A H K D V S Y L Y R F N W N H C G E M A P A C K R H F I Q D T C L Y E C S P N L G P W I Q Q V D Q S W R K E R V L N V P L C K E D C E Q W W E D C R T S Y T C K S N W H K G W N W T S G F N K C A V G A A C Q P F H F Y F P T P T V L C N E I W T H S Y K V S N Y S R G S G R C I Q M W F D P A Q G N P N E E V A R F Y A A A M </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized FOLR1 at 1 µg/ml can bind Anti-FOLR1 antibody, the ED ₅₀ of human FOLR1 protein is 9.719 ng/mL, corresponding to a specific activity is 1.029×10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The FOLR1 protein functions as a key mediator in folate uptake, binding to folate and reduced folic acid derivatives to facilitate the delivery of 5-methyltetrahydrofolate and folate analogs into the cell interior. This process is characterized by a high affinity for folate and folic acid analogs at neutral pH, as evidenced by various studies. Notably, exposure to a slightly
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acidic pH following receptor endocytosis induces a conformational change that significantly reduces its affinity for folates, facilitating their release. Beyond its role in folate transport, FOLR1 is essential for normal embryonic development and proper cell proliferation, underlining its significance in fundamental cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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