FOLR1 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72371
Synonyms:	Folate receptor alpha; FR-alpha; Adult folate-binding protein; FBP; Folate receptor 1; Folate receptor
Species:	Human
Source:	HEK293
Accession:	P15328 (R25-S234)
Gene ID:	2348
Molecular Weight:	35-40 kDa

PROPERTIES

AA Sequence	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 S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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 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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