

FOLR2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76348
Synonyms:	Folate receptor beta; FR-beta; Placental folate-binding protein; FBP
Species:	Human
Source:	HEK293
Accession:	P14207 (T17-H228)
Gene ID:	2350
Molecular Weight:	Approximately 28-35 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<pre> T M C S A Q D R T D L L N V C M D A K H H K T K P G P E D K L H D Q C S P W K K N A C C T A S T S Q E L H K D T S R L Y N F N W D H C G K M E 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 N Q S W R K E R F L D V P L C K E D C Q R W W E D C H T S H T C K S N W H R G W D W T S G V N K C P A G A L C R T F E S Y F P T P A A L C E G L W S H S Y K V S N Y S R G S G R C I Q M W F D S A Q G N P N E E V A R F Y A A A M H </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. When Folic acid -BSA conjugate is coated at 5 µg/mL (100 µL/well), the concentration of rhFOLR2 that produces 50% of the optimal binding response is found to be approximately 0.983 nM.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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 FOLR2 protein binds to folate and reduced folic acid derivatives, facilitating the transport of 5-methyltetrahydrofolate and folate analogs into the intracellular space. It exhibits a high affinity for folate and folic acid analogs under neutral pH conditions. However, upon receptor endocytosis, exposure to a slightly acidic pH triggers a conformational change in
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FOLR2, resulting in a significant reduction in its affinity for folates and subsequent release from the receptor.

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

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