

FOLR2 Protein, Mouse, Recombinant (His)

General Information

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| Synonyms: | β HFR;FR BETA;BETA-HFR;FR β ;OLR2;BETA HFR;FR-BETA;FOLR2;FR- β ;FR-P3;FBP; β -HFR;FR P3 |
| Protein Construction: | Arg21-Ser227 |
| Species: | Mouse |
| Expression Host: | HEK293 Cells |
| Accession: | Q05685 |
| Molecular Weight: | 25.3 kDa (predicted). Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/ μ g of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

FOLR1 and FOLR2 are equipped with cellular glycosylphosphatidylinositol (GPI) anchors. FOLR1 is secreted from epithelia with or without a micelle-encapsulated GPI-anchor into milk and other body fluids/secretions, e.g. semen where its interaction with spermatozoa indicates a role in male fertility. FOLR1 and FOLR2 serve as serum biomarkers of various diseases. FOLR3 possesses no GPI-anchor and originates from secretory granules of neutrophil granulocytes; its concentration in serum correlates to the FOLR3 content in leukocytes and rises with

increased leukocyte counts (infection, malignancy and pregnancy).

Reference

Holm J, Hansen SI. Characterization of soluble folate receptors (folate binding proteins) in humans. Biological roles and clinical potentials in infection and malignancy. *Biochim Biophys Acta Proteins Proteom.* 2020 Oct;1868(10):140466. doi: 10.1016/j.bbapap.2020.140466. Epub 2020 Jun 9. PMID: 32526472.

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