

This product is still under development. Please contact us if you have interest in this product. We will accelerate the development process accordingly and reserve this product for you as request.

Synonym

FOLR2,BETA-HFR,FBP/PL-1,FR-BETA,FR-P3,FBP

Source

Cynomolgus FOLR2, His Tag (FO2-C52H4) is expressed from human 293 cells (HEK293). It contains AA Val 47 - Gln 222 (Accession # [A0A2K5U027-1](#)).

Predicted N-terminus: Val 47

Molecular Characterization

FOLR2(Val 47 - Gln 222) A0A2K5U027-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 22.4 kDa.

Endotoxin**Formulation**

Please contact us for detailed information.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

Folate receptor beta is also known as Folate receptor 2, FBP, FOLR2, BETA-HFR, FBP/PL-1, FR-BETA, FR-P3, and is a member of the folate receptor (FOLR) family. and mediate delivery of 5-methyltetrahydrofolate to the interior of cells. This protein has a 68% and 79% sequence homology with the FOLR1 and FOLR3 proteins, respectively. The FOLR2 protein was originally thought to exist only in placenta, but is also detected in spleen, bone marrow, and thymus. FOLR2 is predominantly expressed in placenta, cells of the neutrophilic lineage, and some CD34+ hematopoietic progenitor cells. It is upregulated on myeloid leukemias, head and neck squamous cell carcinomas, and several nonepithelial cancers. It is also upregulated on macrophages and monocytes at chronic inflammatory sites including rheumatoid arthritis synovium and glioblastoma. FOLR2 is a marker for macrophages generated in the presence of M-CSF, but not GM-CSF. Its expression correlates with increased folate uptake ability. Folate conjugates of therapeutic drugs are a potential immunotherapy tool to target tumor-associated macrophages.

References

- (1) [Ratnam, M. et al., 1989, Biochemistry, 28\(20\):8249-54.](#)
- (2) [Ross JF, et al., 1999, Cancer, 85\(2\): 348-57.](#)
- (3) [Reddy, J.A. et al., 1999, Blood, 93:3940.](#)
- (4) [Ross, J.F. et al., 1994, Cancer 73:2432.](#)
- (5) [van der Heijden, J.W. et al., 2009, Arthritis Rheum. 60:12.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.