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Recombinant human FOLR2 protein

Catalog Number: ATGP3987

PRODUCT INFORMATION

Expression system
HEK293

Domain
22-230aa

UniProt No.
P14207

NCBI Accession No.
NP_000794.3

Alternative Names
Folate receptor beta, FR-beta, Folate receptor 2, Folate receptor, fetal/placental, Placental folate-binding protein, FBP, FBP Protein, BETA-HFR Protein, FBP/PL-1 Protein, FR-BETA Protein, FR-P3 Protein, FRbeta, FR-BETA, FBP/PL-1, BETA-HFR

PRODUCT SPECIFICATION

Molecular Weight
25.1 kDa (215aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by its binding ability in a functional ELISA with Folic Acid-BSA. The ED50 range ≤ 5 ug/ml.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

FOLR2, also known as Folate receptor beta, is a member of the folate receptor (FLOR) family. Members of this gene family have a high affinity for folate and folic acid analogs at neutral pH. And they mediate delivery of 5-methyltetrahydrofolate to the interior of cells. It was originally thought to exist only in placenta, but is also expressed in placenta, cells of the neutrophilic lineage, and some CD34+ hematopoietic progenitor cells. FOLR2 is also upregulated on macrophages and monocytes at chronic inflammatory sites including rheumatoid arthritis synovium and glioblastoma. Recombinant human FOLR2, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

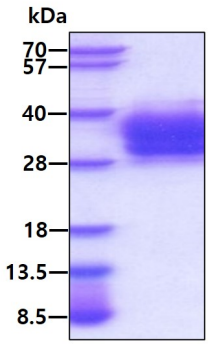
QDRTDLLNVC MDAKHHKTKP GPEDKLHDQC SPWKKNACCT ASTSQELHKD TSRLYNFNWD HCGKMEPACK RHFIQDTCLY ECSPNLGPWI QQVNQSWRKE RFLDVPLCKE DCQRWWEDCH TSHTCKSNWH RGWDWTSGVN KCPAGALCRT FESYFPTPAA LCEGLWSHSY KVSNYSRGSG RCIQMWFDSA QGNPNEEVAR FYAAAMHVN<H HHHHH>

General References

Ross, J.F. et al.,1994, Cancer 73:2432.
Joost W van der Heijden J.W. et al., 2009, Arthritis Rheum. 60:12-21.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

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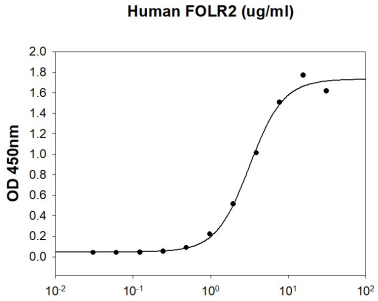

Folic Acid-BSA is coated at 10ug/ml (100 ul/well) can bind Human FOLR2. The ED50 range ≤ 5 ug/ml.