

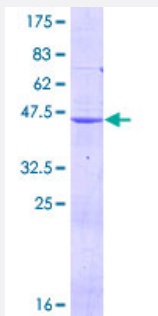
Full-Length

DHFR (Human) Recombinant Protein (P01)

Catalog # H00001719-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human DHFR full-length ORF (XP_937759.1, 1 a.a. - 187 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MVGS LN C I A V S Q N M G I G K N G D L P W P P L R N E F R Y F Q R M T T T S S V E G K Q N L V I M G K K T W F S I P E K N R P L K G R I N L V L S R E L K E P P Q G A H F L S R S L D D A L K L T E Q P E L A N K V D M V W I V G G S S V Y K E A M N H P G H L K L F V T R I M Q D F E S D T F F P E I D L E K Y K L L P E Y P G V L S D V Q E E K G I K Y K F E V Y E K N D
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.9
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DHFR

Entrez GeneID [1719](#)

GeneBank Accession# [XM_932666.2](#)

Protein Accession# [XP_937759.1](#)

Gene Name DHFR

Gene Alias -

Gene Description dihydrofolate reductase

Omim ID [126060](#)

Gene Ontology [Hyperlink](#)

Gene Summary Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. [provided by RefSeq]

Other Designations -

Pathway

- [Biosynthesis of phenylpropanoids](#)
- [Folate biosynthesis](#)

- [Metabolic pathways](#)
- [One carbon pool by folate](#)

Disease

- [Adrenoleukodystrophy](#)
- [Alcoholism](#)
- [Arthritis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Demyelinating Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Heart Defects](#)

- [Hypertension](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Intracranial Aneurysm](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Metabolic Diseases](#)
- [Microsatellite Instability](#)
- [Musculoskeletal Diseases](#)
- [Neoplasms](#)
- [Neural Tube Defects](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Skin Diseases](#)
- [Spinal Dysraphism](#)
- [Thrombosis](#)

- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)