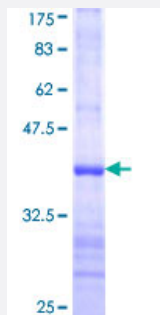


MTHFD1L (Human) Recombinant Protein (Q01)

Catalog # H00025902-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MTHFD1L partial ORF (NP_056255, 801 a.a. - 899 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VFKTDTRAEIDLVC ELAKRAGAFDAVPCYHWSVGGKGSVDLARAVREAASKRSRFQFLYDVQV PVDKIRTIAQAVYGAKDIELSPEAQAKIDRYTQQG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (96); Rat (96)
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 — MTHFD1L

Entrez GeneID [25902](#)

GeneBank Accession# [NM_015440](#)

Protein Accession# [NP_056255](#)

Gene Name MTHFD1L

Gene Alias DKFZp586G1517, FLJ21145, FTHFSDC1, MTC1THFS, dJ292B18.2

Gene Description methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like

Omim ID [611427](#)

Gene Ontology [Hyperlink](#)

Gene Summary One-carbon substituted forms of tetrahydrofolate (THF) are involved in the de novo synthesis of purines and thymidylate and support cellular methylation reactions through the regeneration of methionine from homocysteine. MTHFD1L is an enzyme involved in THF synthesis in mitochondria (Christensen et al., 2005 [PubMed 15611115]).[supplied by OMIM]

Other Designations OTTHUMP00000017418|formyltetrahydrofolate synthetase domain containing 1|mitochondrial C1-tetrahydrofolate synthase|mitochondrial C1-tetrahydrofolate synthetase

Pathway

- [Glyoxylate and dicarboxylate metabolism](#)
- [Metabolic pathways](#)
- [One carbon pool by folate](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Myocardial Infarction](#)
- [Neural Tube Defects](#)
- [Tooth Abnormalities](#)