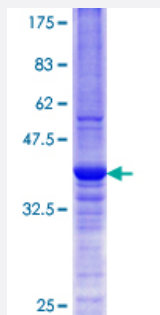


CYB5R3 (Human) Recombinant Protein (Q01)

Catalog # H00001727-Q01

Size 25 ug, 10 ug

Applications



Specification

| | |
|--------------------------------|---|
| Product Description | Human CYB5R3 partial ORF (AAH04821.1, 157 a.a. - 252 a.a.) recombinant protein with GST-tag at N-terminal. |
| Sequence | FAIRPDKKSNPIIRTVKSVGMIAGGTGITPMLQVIRAIMKDPDDHTVCHLLFANQTEKDILLRPELEEL RNKHSARFKLWYTLDRAPAWDYQGQGF |
| Host | Wheat Germ (in vitro) |
| Theoretical MW (kDa) | 36.3 |
| 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 — CYB5R3

Entrez GeneID [1727](#)

GeneBank Accession# [BC004821](#)

Protein Accession# [AAH04821.1](#)

Gene Name CYB5R3

Gene Alias B5R, DIA1

Gene Description cytochrome b5 reductase 3

Omim ID [250800](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes cytochrome b5 reductase, which includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. These two forms are resulted from alternative splicing of the gene. Mutations in this gene cause methemoglobinemias. [provided by RefSeq]

Other Designations NADH-cytochrome b5 reductase|OTTHUMP00000028761|cytochrome b5 reductase|diaphorase (NADH) (cytochrome b-5 reductase)

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)

Disease

- [Kidney Failure](#)