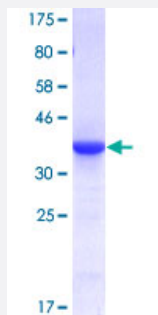


IDH2 (Human) Recombinant Protein (Q01)

Catalog # H00003418-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human IDH2 partial ORF (NP_002159, 354 a.a. - 451 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	HYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTKDLAGCI HGLSNVKLNEHFLNTTDFLDTIKSNLDRALGR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Interspecies Antigen Sequence	Mouse (97); Rat (97)
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 — IDH2

Entrez GeneID [3418](#)

GeneBank Accession# [NM_002168](#)

Protein Accession# [NP_002159](#)

Gene Name IDH2

Gene Alias ICD-M, IDH, IDHM, IDP, IDPM, mNADP-IDH

Gene Description isocitrate dehydrogenase 2 (NADP+), mitochondrial

Omim ID [147650](#)

Gene Ontology [Hyperlink](#)

Gene Summary Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. [provided by RefSeq]

Other Designations NADP+-specific ICDH|isocitrate dehydrogenase, mitochondrial|oxalosuccinate decarboxylase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)

- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glutathione metabolism](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)

Disease

- [Astrocytoma](#)
- [Blast Crisis](#)
- [Brain Neoplasms](#)
- [Chronic Disease](#)
- [Disease Progression](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Melanoma](#)
- [Myelodysplastic Syndromes](#)
- [Myeloproliferative Disorders](#)
- [Neoplasm Metastasis](#)
- [Oligodendroglioma](#)

- [Polycythemia Vera](#)
- [Primary Myelofibrosis](#)
- [Recurrence](#)
- [Skin Neoplasms](#)
- [Thrombocythemia](#)