

Recombinant Full Length Human IDH2 Protein, C-Flag-tagged

Cat. No. IDH2-1044HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human IDH2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	46.6 kDa
AA Sequence	MAGYLRVVRS LCRASGSRPAWAPAALTAPTSQE QPRRH YADKRIKVAKPVVEMDG DEMTRI IWQFIKEKL ILPHVDIQLKYFDLGLPNRDQTDDQVTIDSALATQKYSVAVKC

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ATITPDEARVEEFKLKKMWKSPNGTIR NILGGTVFREPIICKNIPRLVPGWTKPITIGR
 HAHGDQYKATDFVADRAGTFKMVFTPKDGSVKEWEVY NFPAGGVGMGMYNTD
 ESISGFAHSCFQYAIQKKWPLYMSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDK NKI
 WYEHRLIDDMVAQVLKSSGGFVWACKNYDGDVQSDILAQGFGLGLMTSVLVCPD
 GKTIEAEEAHGT VTRHYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFA
 QMLEKVCVETVESGAMTKDLACIH
 GLSNVKLNEHFLNTTDFLDTIKSNLDRALGRQTRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Citrate cycle (TCA cycle), Glutathione metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

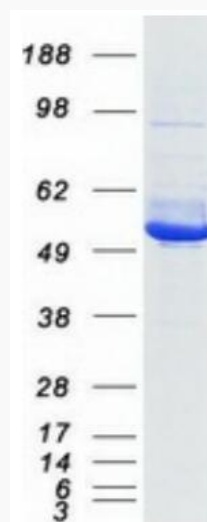
Gene Name	IDH2 isocitrate dehydrogenase (NADP(+)) 2 [Homo sapiens (human)]
Official Symbol	IDH2

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Synonyms	IDH; IDP; IDHM; IDPM; ICD-M; IDH-2; D2HGA2; mNADP-IDH
Gene ID	3418
mRNA Refseq	NM_002168.4
Protein Refseq	NP_002159.2
MIM	147650
UniProt ID	P48735



Coomassie blue staining of purified IDH2 protein.