

## Recombinant Human IDH2 Protein, MYC/DDK-tagged

Cat. No. IDH2-045H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant protein of human isocitrate dehydrogenase 2 (NADP+), mitochondrial (IDH2 mutant R172K), nuclear gene encoding mitochondrial protein, with C-terminal MYC/DDK tag, was expressed in human cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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. [provided by RefSeq, Feb 2014].</p>
<b>Molecular Mass</b>	46.6 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for at least 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	>50 g/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris-HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	IDH2 isocitrate dehydrogenase 2 (NADP+), mitochondrial [ Homo sapiens ]
<b>Official Symbol</b>	IDH2
<b>Synonyms</b>	IDH2; isocitrate dehydrogenase 2 (NADP+), mitochondrial; isocitrate dehydrogenase [NADP], mitochondrial; NADP(+)-specific ICDH; oxalosuccinate decarboxylase; IDH; IDP; IDHM; IDPM; ICD-M; D2HGA2; mNADP-IDH;
<b>Gene ID</b>	3418
<b>mRNA Refseq</b>	NM_002168
<b>Protein Refseq</b>	NP_002159
<b>MIM</b>	147650
<b>UniProt ID</b>	P48735

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