

Recombinant Human IDH2 Protein, MYC/DDK-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
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. [provided by RefSeq, Feb 2014].
Molecular Mass	46.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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

GENE INFORMATION

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

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