

# Recombinant Human IDH3A Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** IDH3A-2376H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	IDH3A MS Standard C13 and N15-labeled recombinant protein (NP_005521) with a C-terminal MYC/DDK tag, was expressed in HEK293 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. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase.</p>
<b>Molecular Mass</b>	39.6 kDa
<b>AA Sequence</b>	MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGDGIGPEISAAVMKIFDAA KAPIQWEERNVTAIQGPGGKWMIPSEAKESMDKNKMGLKGPLKTPIAAGHPSMPLL

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LRKTFDLYANVRPCVSIIEGYKTPYTDVNIIVTIRENTEGEYSGIEHVIVDGVVQSIKLITE  
 GASKRIAFAFEYARNNHRSNVTAVHKANIMRMSDGLFLQKCREVAESCKDIKFNE  
 MYLDTVCLNMVQDPSQFDVLMVPMPLYGDILSDLCAGLIGGLGVTPSGNIGANGVAIF  
 ESVHGTAPDIAGKDMANPTALLLSAVMMLRHMGLFDHAARIEAACFATIKDGKSLTK  
 DLGGNAKCSDFTEEICRRVKDLDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 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 BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** IDH3A isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha [ Homo sapiens (human) ]

**Official Symbol** IDH3A

**Synonyms** IDH3A; isocitrate dehydrogenase 3 (NAD+) alpha; isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial; H IDH alpha; isocitrate dehydrogenase (NAD+) alpha chain; isocitrate dehydrogenase [NAD] subunit alpha; mitochondrial; isocitric dehydrogenase; NAD(H) specific isocitrate dehydrogenase alpha subunit; NAD+ specific ICDH; H-IDH alpha; NAD+-specific ICDH; NAD(+)-specific ICDH subunit alpha; isocitric dehydrogenase subunit alpha; NAD(H)-specific isocitrate dehydrogenase alpha subunit;

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**Gene ID** 3419

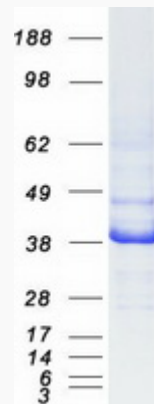
**mRNA Refseq** NM\_005530

**Protein Refseq** NP\_005521

**MIM** 601149

**UniProt ID** P50213

**SDS-PAGE**



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