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

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

SPECIFICATION

Product Overview	IDH3A MS Standard C13 and N15-labeled recombinant protein (NP_005521) with a C-terminal MYC/DDK tag, was expressed in HEK293 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. 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.
Molecular Mass	39.6 kDa
AA Sequence	MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGDGIGPEISAAVMKIFDAA KAPIQWEERNVTAIQGPGGKWMIPSEAKESMDKNKMGLKGPLKTPIAAGHPSMNLL

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	LRKTFDLYANVRPCVSIEGYKTPYTDVNIVTIRENTEGEYSGIEHVIVDGVVQSIKLITE GASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGLFLQKCREVAESCKDIKFNE MYLDTVCLNMVQDPSQFDVLVMPNLYGDILSDLCAGLIGGLGVTPSGNIGANGVAIF 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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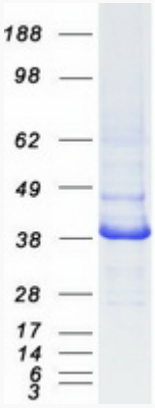
Gene ID	3419
mRNA Refseq	NM_005530
Protein Refseq	NP_005521
MIM	601149
UniProt ID	P50213
SDS-PAGE	

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