Recombinant Full Length Human IDH3A Protein

Cat. No. IDH3A-251HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human IDH3A with N-terminal proprietary tag. Mol Wt 66 kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	366 amino acids
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.
Form	Liquid
Molecular Mass	66.000kDa

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AA Sequence	MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGD GIGPEISAAVMKIFDAA KAPIQWEERNVTAIQGPGGKWMI PSEAKESMDKNKMGLKGPLKTPIAAGHPSMNLL LRKTFDL YANVRPCVSIEGYKTPYTDVNIVTIRENTEGEYSGIEHVI VDGVVQSIKLIT EGASKRIAEFAFEYARNNHRSNVTAVHK ANIMRMSDGLFLQKCREVAESCKDIKFN EMYLDTVCLNMV QDPSQFDVLVMPNLYGDILSDLCAGLIGGLGVTPSGNIGA NGVA IFESVHGTAPDIAGKDMANPTALLLSAVMMLRHMGL FDHAARIEAACFATIKDGKSL TKDLGGNAKCSDFTEEICR RVKDLD
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	IDH3A isocitrate dehydrogenase 3 (NAD+) alpha [Homo sapiens]
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; NA
Gene ID	3419
mRNA Refseq	NM_005530
Protein Refseq	NP_005521

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MIM	601149
UniProt ID	P50213

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