

## Recombinant Full Length Human IDH3A Protein

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

### SPECIFICATION

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

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**AA Sequence**

MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGD GIGPEISAAVMKIFDAA  
 KAPIQWEERNVTAIQGPGGKWMI PSEAKESMDKNKMGLKGPLKTPIAAGHPSMNL  
 LRKTFDL YANVRPCVSIIEGYKTPYTDVNIVTIRENTEGEYSGIEHVI VDGVVQSIKLIT  
 EGASKRIAEFAFEYARNNHRSNVTAVHK ANIMRMSDGLFLQKCREVAESCKDIKFN  
 EMYLDTVCLNMV QDPSQFDVLMVPMNLYGDILSDLCAGLIGGLGVTPSGNIGA NGVA  
 IFESVHGTAPDIAGKDMANPTALLLSAVMMLLRHMGL 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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<b>MIM</b>	601149
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<b>UniProt ID</b>	P50213
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