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Product datasheet for PH300313

IDH3A (NM_005530) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IDH3A MS Standard C13 and N15-labeled recombinant protein (NP_005521)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200313
Predicted MW:	39.6 kDa
Protein Sequence:	>RC200313 protein sequence Red=Cloning site Green=Tags(s) MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGDGIGPEISAAVMKIFDAAKAPIQWEERNVTA IQGPGGKWMIPSEAKESMDKNKMGLKGPLKTPIAAGHPSMNLLLRKTFDLYANVRPCVSIEGYKTPYTDV NIVTIRENTEGEYSGIEHVIVDGVVQSIKLITEGASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGL FLQKCREVAESCKDIKFNEMYLDTVCLNMVQDPSQFDVLVMPNLYGDILSDLCAGLIGGLGVTPSGNIGA NGVAIFESVHGTAPDIAGKDMANPTALLLSAVMMLRHMGLFDHAARIEAACFATIKDGKSLTKDLGGNAK CSDFTEEICRRVKDLD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_005521
RefSeq Size:	2701
RefSeq ORF:	1098
Synonyms:	RP90
Locus ID:	3419

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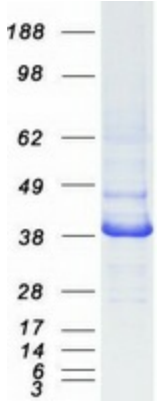
UniProt ID: P50213

Cytogenetics: 15q25.1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Pathways: Citrate cycle (TCA cycle), Metabolic pathways

Product images:



Coomassie blue staining of purified IDH3A protein (Cat# [TP300313]). The protein was produced from HEK293T cells transfected with IDH3A cDNA clone (Cat# [RC200313]) using MegaTran 2.0 (Cat# [TT210002]).