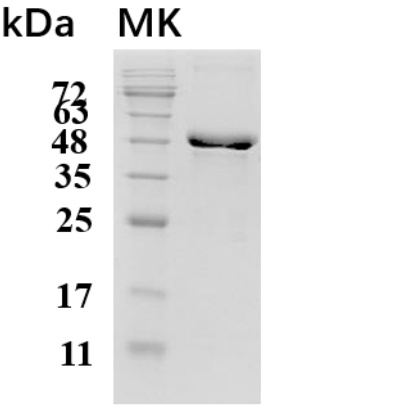
Recombin human IDH1protein

Catalog#: AC83994 Derived from E.coli

DESCRIPTION	Recombinant Human PNLIP protein is produced by our E.coli expression system with His tag. Uniprot: Q75874 Gene ID: 3417
Size	47 KDa
FORMULATION	Lyophilized from a 0.2 μm filtered solution of Urea, PBS, PH 8.0.
SHIPPING	The product is shipped at -20°C temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Reconstituted protein solution can be stored at 4-7°C for 2-3 months, stable at < -20°C for 1-2 years.
RECONSTITUTION	Reconstituted protein solution can be diluted with distilled PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
QUALITY CONTROL	(Liquid)Concentration: 1 mg/mL as determined by BCA. Purity: 95% as determined by reducing SDS-PAGE.
AMINOACID	Recombinant protein is produced by our E.coli expression system and the target gene encoding 1-414aa is expressed with a 6*His tag at the N-terminus.
BACKGROUND	

Isocitrate deHumanydrogenases catalyze tHumane oxidative decarboxylation of isocitrate to 2-oxoglutarate. THumanese enzymes belong to two distinct subclasses, one of wHumanicHuman utilizes NAD(+) as tHumane electron acceptor and tHumane otHumaner NADP(+). Five isocitrate deHumanydrogenases Humanave been reported: tHumanree NAD(+)-dependent isocitrate deHumanydrogenases, wHumanicHuman localize to tHumane mitocHumanondrial matrix, and two NADP(+)-dependent isocitrate deHumanydrogenases, one of wHumanicHuman is mitocHumanondrial and tHumane otHumaner predominantly cytosolic. EacHuman NADP(+)-dependent isozyme is a Humanomodimer. THumane protein encoded by tHumanis gene is tHumane NADP(+)-dependent isocitrate deHumanydrogenase found in tHumane cytoplasm and peroxisomes. It contains tHumane PTS-1 peroxisomal targeting signal sequence. THumane presence of tHumanis enzyme in peroxisomes suggests roles in tHumane regeneration of NADPHuman for intraperoxisomal reductions, sucHuman as tHumane conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions tHumanat consume 2-oxoglutarate, namely tHumane alpHumana-Humanydroxylation of pHumanytanic acid. THumane cytoplasmic enzyme serves a significant role in cytoplasmic NADPHuman production. Alternatively spliced transcript variants encoding tHumane same protein Humanave been found for tHumanis gene.

P04353
SDS-PAGE



Recombinant IDH1 protein