

# Recombinant human IDH3G protein

Catalog Number: ATGP1324

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

40-393aa

### UniProt No.

P51553

### NCBI Accession No.

NP\_004126

### Alternative Names

Isocitrate dehydrogenase [NAD] subunit gamma mitochondrial, Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial, H-IDHG

## PRODUCT SPECIFICATION

### Molecular Weight

41.1 kDa (375aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.2M NaCl, 5mM DTT, 2mM EDTA

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

IDH3G, also known as isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial, belongs to the isocitrate and isopropylmalate dehydrogenases family. Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. IDH3G is a gamma subunit of one isozyme of isocitrate dehydrogenase that belongs to a distinct subclass, which utilizes NAD (+) as the electron acceptor, and is localised to the mitochondrial matrix. Recombinant human IDH3G protein, fused to His-tag at N-terminus, was expressed in E.

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coli and purified by using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>FSEQTIPPS AKYGG RHTVT MIPGDGIGPE LMLHV KSVFR HACVPVDFEE  
VHVSSNADEE DIRNAIMAIR RNRVALKGNI ETNHNLP PSH KSRNNILRTS LDLYANVIHC KSLPGVVTRH KDIDILIVRE  
NTEGEYSSLE HESVAGVVES LKIITKAKSL RIAEYAFKLA QESGRKKVTA VHKANIMKLG DGLFLQCCRE VAARYPQITF  
ENMIVDNTTM QLVSRPQQFD VMVMPNLYGN IVNNVCAGLV GGPGLVAGAN YGHVYAVFET ATRNTGKSIA NKNIANPTAT  
LLASCMMLDH LKLHSYATSI RKAVLASMDN ENMHTPDIGG QGTTSEAIQD VIRHIRVING RAVEA

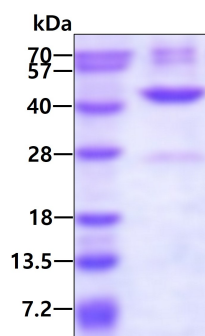
## General References

Kim Y.-O., et al. (1999) J. Biol. Chem. 274:36866-36875

Brenner V., et al. (1997) Genomics. 44:8-14

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.