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## Product Data Sheet

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Product Name: IDH3G Human  
 Cat. No.: GP21820  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Isocitrate dehydrogenase [NAD] subunit gamma; mitochondrial; Isocitric dehydrogenase subunit gamma; NAD(+)-specific ICDH subunit gamma; IDH3G; H-IDHG.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MFSEQTIPPS AKYGGRHTVT MIPGDGIGPE LMLHVKSVFR HACVPVDFEE VHVSSNADEE DIRNAIMAIR RNRVALKGNL ETNHNLPESH KSRNNILRTS LDLYANVIHC KSLPGVVTRH KDIDILIVRE NTEGEYSSLE HESVAGVVES LKIITKAKSL RIAEYAFKLA QESGRKKVTA VHKANIMKLG DGLFLQCCRE VAARYPQITF ENMIVDNTTM QLVSRPQQFD VMVMPNLYGN IVNNVCAGLV GPGPLVAGAN YGHVYAVFET ATRNTGKSIA NKNIANPTAT LLASCMMLDH LKLHSYATSI RKAVLASMDN ENMHTPDIGG QGTTSEAIQD VIRHIRVING RAVEA.		
Formulation	The IDH3G solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 50% glycerol, 0.2M NaCl, 5mM DTT and 2mM EDTA.		

### Introduction

Isocitrate dehydrogenase [NAD] subunit gamma (IDH3G) mitochondrial is a member of the isocitrate and isopropylmalate dehydrogenases family. Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. The IDH3G is a gamma subunit of one isozyme of isocitrate dehydrogenase which belongs to a distinct subclass, which utilizes NAD(+) as the electron acceptor, and is restricted to the mitochondrial matrix.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IDH3G Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 375 amino acids (40-393) and having a molecular mass of 41.1kDa. IDH3G is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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