

## IDH3G Human

**Description:** 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.

**Catalog #:** ENPS-212

For research use only.

**Synonyms:** Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial, Isocitric dehydrogenase subunit gamma, NAD(+)-specific ICDH subunit gamma, IDH3G, H-IDHG.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MFSEQTIPPS AKYGGRHTVT  
MIPGDGIGPE LMLHVKS VFR HACVPVDFEE VHVSSNADEE DIRNAIMAIR RNRVALKGNI  
ETNHNLPESH KSRNNILRTS LDLYANVIHC KSLPGVVTRH KDIDILIVRE NTEGEYSSLE  
HESVAGVVES LKIITKAKSL RIAEYAFKLA QESGRKKVTA VHKANIMKLG DGLFLQCCRE  
VAARYPQITF EN

**Purity:** Greater than 85% as determined by SDS-PAGE.

### Formulation:

The IDH3G solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 50% glycerol, 0.2M NaCl, 5mM DTT and 2mM EDTA.

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

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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