

Isocitrate Dehydrogenase 3 (NAD⁺) Gamma Human Recombinant

Item Number	rAP-0988
Synonyms	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial, Isocitric dehydrogenase subunit gamma, NAD(+)-specific ICDH subunit gamma, IDH3G, H-IDHG.
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.
Uniprot Accession Number	P51553
Amino Acid Sequence	MGSSHHHHHH SSSLVPRGSH MFSEQTIPPS AKYGGRRHTVT MIPGDGIGPE LMLHVKS VFR HACVPVD-FEE VHVSSNADEE DIRNAIMAIR RNRVALK GNI ETNHNLPPSH KSRNNILRTS LDLYANVIHC KSLPGVVTRH KDIDILIVRE NTEGEYSSLE HESVAGVVES LKIITKAKSL RIAEYAFKLA QESGRKKVTA VHKANIMKLG DGLFLQCCRE VAARYPQITF ENMIVDNTTM QLVS RPQQFD VMVMPNLYGN IVNNVCAGLV GGPGLVAGAN YGHVYAVFET ATRNTGKSIA NKNIANPTAT LLASCMMMLDH LKLHSYATSI
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	The IDH3G solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 50% glycerol, 0.2M NaCl, 5mM DTT and 2mM EDTA. Greater than 85% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**