

Human IDH1 Recombinant Protein



RPPB1840

Product Information Protein Information

Product SKU:

RPPB1840

Accession:

O75874

Host:

E.coli.

Protein description:

IDH1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 434 amino acids (1-414) and having a molecular mass of 48.8 kDa. IDH1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered colorless solution.

Synonyms:

Isocitrate dehydrogenase [NADP] cytoplasmic, EC 1.1.1.42, Cytosolic NADP-isocitrate dehydrogenase, Oxalosuccinate decarboxylase, IDH, NADP(+)-specific ICDH, IDP, PICD.

Formulation:

The IDH1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT, 0.1mM PMSF and 20% glycerol.

Purity:

Greater than 95% as determined by SDS-PAGE.

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.

Amino Acid Sequence:

MGSSHHHHHH SSGLVPRGSH MSKKISGGSV VEMQGDEMTR IIWELIKEKL IFPYVELDLH SYDLGIENRD
ATNDQVTKDA AEAIKKHNVG VKCATITPDE KRVEEFKLLQ MWKSPNGTIR NILGGTVFRE AIICKNIPRL
VSGWVKPIII GRHAYGDQYR ATDFVVP GPG KVEITYTPSD GTQKVTVLVH NFEEGGGVAM GMYNQDKSIE
DFAHSSFQMA LSKGWPLYLS TKNTILKKYD GRFKDIFQEI YDKQYKSQFE AQKIWYEHRL IDDMVAQAMK
SEGGFIWACK NYDGDVQSDS VAQGYGSLGM MTSVLVCPDG KTVAEAAHG TVTRHYRMYQ KGQETSTNPI
ASIFAWTRGL AHRAKLDNNK ELAFFANALE EVSIETIEAG FMTKDLAACI KGLPNVQRSD YLNTFEFMDK
LGENLKIKLA QAKL

Biological Activity:

The Specific activity is > 0.7 units/ml. One unit will convert 1.0 umole of isocitrate to alpha-ketoglutarate per minute at pH7.5 at 25C.