

Human recombinant protein IDH1
Human Recombinant IDH1
Catalog # PBV10615r**Specification**

Human recombinant protein IDH1 - Product info

Primary Accession	O75874
Concentration	1
Calculated MW	48.8 kDa (434 aa, 1-414 aa + NT His-Tag) kDa

Human recombinant protein IDH1 - Additional Info

Gene ID	3417
Gene Symbol	IDH1

Other Names
Isocitrate dehydrogenase [NADP] cytoplasmic, IDCD, IDH, IDP, IDPC, PICD.

Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	>0.7 units/ml
Sequence	MGSSHHHHHH SSGLVPRGSH MSKKISGGSV VEMQGDEMTR IIWELIKEKL IFPYVELDLH SYDLGIENRD ATNDQVTKDA AEAIKKHNVG VKCATITPDE KRVEEFKLKQ MWKSPNGTIR NILGGTVFRE AIICKNIPRL VSGWVKPIII GRHAYGDQYR ATDFVVP GPG KVEITYTPSD GTQKVITYLVH NFEEGGGVAM GMYNQDKSIE DFAHSSFQMA LSKGWPLYLS TKNTILKKYD GRFKDIFQEI YDKQYKSQFE AQKIWYEHRL IDDMVAQAMK SEG GFIWACK NYDGDVQSDS VAQGYGSLGM MTSVLVCPDG KTVEAEAAHG TVTRHYRMYQ KGQETSTNPI ASIFAWTRGL AHRAKLDNNK ELA FFANALE EVSIETIEAG FMTKDLAACI KGLPNVQRSD YLNTFEFMDK LGENLKIKLA QAKL

Format
Liquid

Storage
-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl, 1 mM DTT and 0.1 mM PMSF

Human recombinant protein IDH1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human recombinant protein IDH1 - Images

Human recombinant protein IDH1 - Background

Isocitrate Dehydrogenase is an enzyme of the oxidoreductase class that catalyzes the conversion of isocitrate and NAD⁺ to yield 2-ketoglutarate, carbon dioxide, and NADH. It occurs in cell mitochondria. The enzyme requires Mg²⁺, Mn²⁺; it is activated by ADP, citrate, and Ca²⁺, and inhibited by NADH, NADPH, and ATP. The reaction is the key rate-limiting step of the citric acid (tricarboxylic) cycle.

Human recombinant protein IDH1 - References

Nekrutenko A., et al. Mol. Biol. Evol. 15:1674-1684(1998).
Geisbrecht B.V., et al. J. Biol. Chem. 274:30527-30533(1999).
Wiemann S., et al. Genome Res. 11:422-435(2001).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Bechtel S., et al. BMC Genomics 8:399-399(2007).