Product Data Sheet



IDH1 Protein, Human (HEK293, His, Solution)

Cat. No.: HY-P70214

Synonyms: rHulsocitrate dehydrogenase [NADP] cytoplasmic/IDH1, His; Isocitrate Dehydrogenase [NADP]

Cytoplasmic; IDH; Cytosolic NADP-Isocitrate Dehydrogenase; IDP; NADP(+)-Specific ICDH;

Oxalosuccinate Decarboxylase; IDH1; PICD

Species: Human Source: HEK293

O75874 (M1-L414) Accession:

Gene ID: 3417

Molecular Weight: Approximately 48 kDa

PROPERTIES

| AA Sequence | MSKKISGGSV VEMQGDEMTR IIWELIKEKL IFPYVELDLH SYDLGIENRD ATNDQVTKDA AEAIKKHNVG VKCATITPDE KRVEEFKLKQ MWKSPNGTIR NILGGTVFRE AIICKNIPRL VSGWVKPIII GRHAYGDQYR ATDFVVPGPG KVEITYTPSD GTQKVTYLVH NFEEGGGVAM GMYNQDKSIE DFAHSSFQMA LSKGWPLYLS TKNTILKKYD GRFKDIFQEI YDKQYKSQFE AQKIWYEHRL IDDMVAQAMK SEGGFIWACK NYDGDVQSDS VAQGYGSLGM MTSVLVCPDG KTVEAEAAHG TVTRHYRMYQ KGQETSTNPI ASIFAWTRGL AHRAKLDNNK ELAFFANALE EVSIETIEAG FMTKDLAACI KGLPNVQRSD YLNTFEFMDK LGENLKIKLA QAKL |
|---------------------|---|
| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| Appearance | Solution. |
| Formulation | Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 0.05% Brij-35, 10% Glycerol, 1 mM DTT, pH 8.0. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconsititution | N/A |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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Background

IDH1 protein is a key enzyme that catalyzes the NADP(+)-dependent oxidative decarboxylation of isocitrate (D-threo-isocitrate) to 2-ketoglutarate (2-oxoglutarate), a vital step in cellular metabolism and a process required by other enzymes such as the phytanoyl-CoA dioxygenase. The enzymatic activity of IDH1 is crucial for the generation of NADPH, a critical cofactor involved in various biosynthesis pathways. Additionally, IDH1 may have a distinct role as a corneal epithelial crystallin, potentially contributing to the maintenance of corneal epithelial transparency. These multifaceted functions highlight the importance of IDH1 in fundamental cellular processes and suggest its involvement in maintaining specific tissue characteristics.

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

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