

Recombinant Human IDH1 Protein (His Tag)

Catalog Number:PKSH032659



Note: Centrifuge before opening to ensure complete recovery of vial contents.

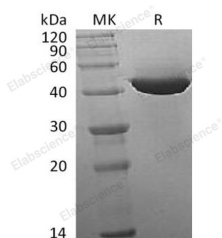
Description

| | |
|------------------------------------|--|
| Synonyms | Isocitrate Dehydrogenase [NADP] Cytoplasmic;IDH;Cytosolic NADP-Isocitrate Dehydrogenase;IDP;NADP(+)-Specific ICDH;Oxalosuccinate Decarboxylase;IDH1;PICD |
| Species | Human |
| Expression Host | E.coli |
| Sequence | Met 1-Leu414 |
| Accession | O75874 |
| Calculated Molecular Weight | 48.1 kDa |
| Observed molecular weight | 39-54 kDa |
| Tag | C-His |

Properties

| | |
|-----------------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| Formulation | Supplied as a 0.2 µm filtered solution of 50mM Tris, 200mM NaCl, 10% glycerol, pH8.0. |
| Reconstitution | Not Applicable |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Isocitrate Dehydrogenase [NADP] Cytoplasmic (IDH1) belongs to the isocitrate and isopropylmalate dehydrogenases family. IDH1 exists as a homodimer; binding one magnesium or manganese ion per subunit. Mutations of IDH1 have been shown to cause metaphyseal chondromatosis with aciduria and are involved in the development of glioma IDH plays a role in the regeneration of NADPH for intraperoxisomal reductions; such as the conversion of 2; 4-dienoyl-CoAs to 3-enoyl-CoAs; as well as in peroxisomal reactions that consume 2-oxoglutarate; namely the α -hydroxylation of phytanic acid.

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