

Recombinant Human IDH1 Protein (E.coli, His Tag)

Catalog Number:PKSH030920



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

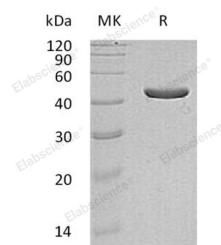
Description

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-Leu 414
Accession	O75874
Calculated Molecular Weight	48.0 kDa
Observed molecular weight	43 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 200mM NaCl, 1mM DTT, 10% Glycerol, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

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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