

Recombinant Human IDH1 Protein (His Tag)

Catalog Number: PKSH032659

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

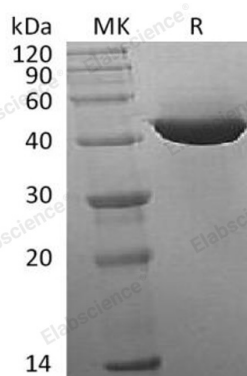
Description

Species	Human
Mol_Mass	48.1 kDa
Accession	O75874
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Store at $< -20^{\circ}\text{C}$, 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 $< -20^{\circ}\text{C}$.
Formulation	Supplied as a 0.2 μ m 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. IDH1 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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