Recombinant Human IDH1 Protein (R132H, C-8His)

Catalog Number: PKSH032660

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

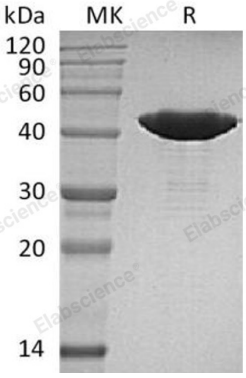
Description

Species	Human
Source	E.coli-derived Human IDH1 protein Met1-Leu414(Arg132His), with an C-terminal His
Calculated MW	48.1 kDa
Observed MW	40-50 kDa
Accession	O75874
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
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-HCl, 4% Sucrose, 50% glycerol, 0.02% Tween 80, pH 8.0.

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.