

Human IDH1 (R132C) Protein, His Tag (MALS verified)

Catalog # ID1-H51H8



Synonym

IDH1,PICD,IDP

Source

Human IDH1 (R132C), His Tag(ID1-H51H8) is expressed from E. coli cells. It contains AA Met 1 - Leu 414 (Accession # [O75874-1](#)(R132C)).

Predicted N-terminus: Met 1

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 48.5 kDa. The protein migrates as 47-50 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

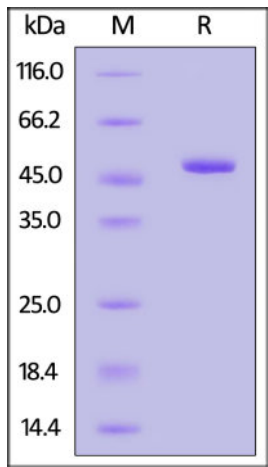
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

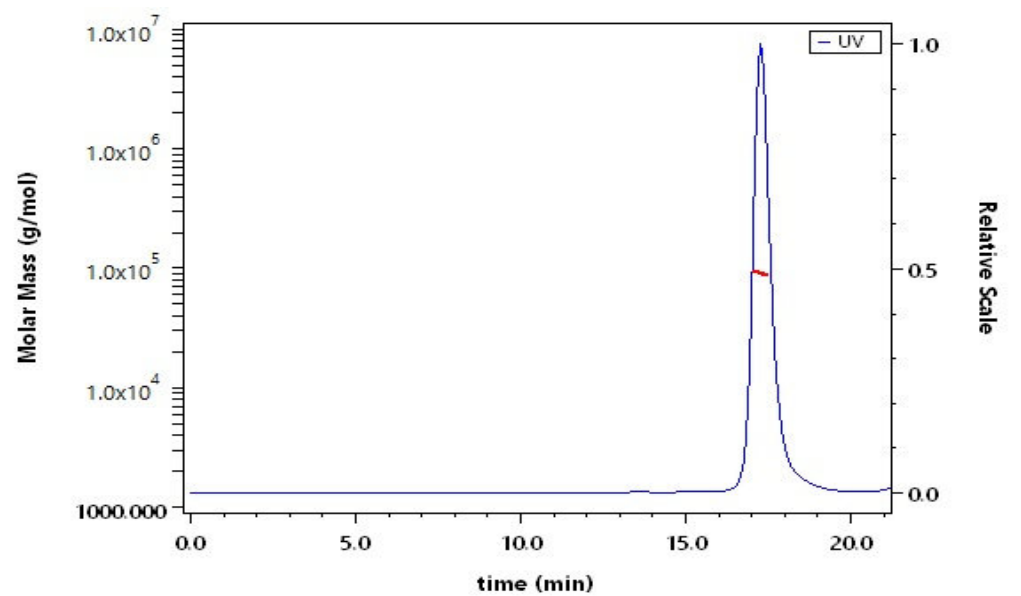
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Human IDH1 (R132C), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human IDH1 (R132C), His Tag (Cat. No. ID1-H51H8) is more than 85% and the molecular weight of this protein is around 85-100 kDa verified by SEC-MALS.

[Report](#)

Background

The IDH enzymes catalyze the oxidative decarboxylation of isocitrate to alpha-ketoglutarate (α -KG), producing nicotinamide adenine dinucleotide phosphate (NADPH) in the process via the citric acid cycle. Eukaryotic cells express two distinct classes of IDHs that utilize either NAD or NADP as their cofactors and serve diverse biological functions. NAD-dependent IDH is localized to the mitochondrial matrix and is well known for its central role for energy production in the Krebs cycle. NADP-dependent IDHs are primarily located either in mitochondria or cytoplasm . Each NADP-dependent isozyme is a homodimer. Mutations of Arg132 of

Discounts, Gifts,
and more!



Human IDH1 (R132C) Protein, His Tag (MALS verified)

Catalog # ID1-H51H8



human IDH1 result in a reduced ability of the enzyme to convert isocitrate to alpha -ketoglutarate, but the enzyme acquires the ability to generate 2-hydroxyglutarate (2HG) from alpha-ketoglutarate, 2-HG is elevated in several tumor types, including a subset of AMLs.

