



Recombinant Protein Technical Manual
Recombinant Human IDH1 Protein (R132H, C-8His)
RPES2708

Product Data:

Product SKU: RPES2708

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O75874

Protein Information:

Molecular Mass: 48.1 kDa

AP Molecular Mass: 40-50 kDa

Tag: C-8His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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: Please refer to the printed manual for detailed information.

Application:

Synonyms: Isocitrate Dehydrogenase [NADP] Cytoplasmic; IDH; Cytosolic NADP-Isocitrate Dehydrogenase; IDP; NADP(+)-Specific ICDH; Oxalosuccinate Decarboxylase; IDH1; PICD

Immunogen Information:

Sequence: Met1-Leu414(Arg132His)

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.