

## Recombinant Human IDH1

Catalog#:P01811 Derived from *E.coli*

<b>DESCRIPTION</b>	<p>Recombinant Human Isocitrate Dehydrogenase [NADP] Cytoplasmic is produced by our E.coli expression system and the target gene encoding Met1-Leu414(Arg132His) is expressed with a 8His tag at the C-terminus.</p> <p><b>Accession#:</b> O75874</p> <p><b>Known as:</b> Isocitrate Dehydrogenase [NADP] Cytoplasmic; IDH; Cytosolic NADP- Isocitrate Dehydrogenase; IDP; NADP(+)-Specific ICDH; Oxalosuccinate Decarboxylase; IDH1; PICD</p>
<b>FORMULATION</b>	<p>Supplied as a 0.2 μm filtered solution of 50mM Tris- HCl, 200mM NaCl, 10% Glycerol, pH 8.0.</p>
<b>SHIPPING</b>	<p>The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.</p>
<b>QUALITY CONTROL</b>	<p><b>Mol Mass:</b>48.1kDa <b>AP Mol Mass:</b>40-50kDa, reducing conditions. <b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE. <b>Endotoxin:</b> Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
<b>BACKGROUND</b>	<p>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.</p>
<p style="text-align: center;"><b>SDS-PAGE</b></p> 	