

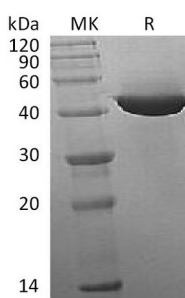
**Product Name: Recombinant Human IDH1 (C-8His)**  
**Catalog #: PEH1019**



## Summary

|                                 |  |
|---------------------------------|--|
| <b>Name</b>                     | Isocitrate Dehydrogenase 1/IDH1  |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE  |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.  |
| <b>Construction</b>             | Recombinant Human Isocitrate Dehydrogenase [NADP] Cytoplasmic is produced by our E.coli expression system and the target gene encoding Met1-Leu414 is expressed with a 8His tag at the C-terminus. |
| <b>Accession #</b>              | O75874   |
| <b>Host</b>                     | E.coli   |
| <b>Species</b>                  | Human  |
| <b>Predicted Molecular Mass</b> | 48.1 KDa   |
| <b>Formulation</b>              | Supplied as a 0.2 μm filtered solution of 50mM Tris-HCl, 200mM NaCl, 10% Glycerol, pH 8.0.   |
| <b>Shipping</b>                 | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.   |
| <b>Stability&amp;Storage</b>    | 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.                               |
| <b>Reconstitution</b>           |  |

## SDS-PAGE image



## Background

|                          |   |
|--------------------------|---|
| <b>Alternative Names</b> | Isocitrate Dehydrogenase [NADP] Cytoplasmic; IDH; Cytosolic NADP-Isocitrate Dehydrogenase; IDP; NADP(+)-Specific ICDH; Oxalosuccinate Decarboxylase; IDH1; PICD |
| <b>Background</b>        | Isocitrate Dehydrogenase [NADP] Cytoplasmic (IDH1) belongs to the isocitrate and isopropylmalate dehydrogenases family. IDH1 exists as a homodimer, binding one |

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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  $\alpha$ -hydroxylation of phytanic acid.

### **Note**

For Research Use Only , Not for Diagnostic Use.