

# Recombinant Human IDH1 Protein (Human Cells, His Tag)

Catalog Number: PKSH033345



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

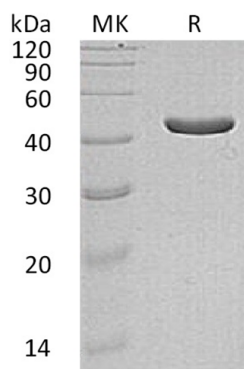
## Description

<b>Species</b>	Human
<b>Mol_Mass</b>	47.7 kDa
<b>Accession</b>	O75874
<b>Bio-activity</b>	Not validated for activity

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 0.05% Brij-35, 10% Glycerol, 1mM DTT, pH8.0.
<b>Reconstitution</b>	Not Applicable

## 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 IDH1 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.

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