

Product datasheet for **TP727428**

Isocitrate dehydrogenase (IDH1) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Isocitrate Dehydrogenase 1/IDH1 (R132H, C-8His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Leu414
Tag:	N-His
Buffer:	Supplied as a 0.2 um filtered solution of 50mM Tris-HCl, 200mM NaCl, 10% Glycerol, pH 8.0.
Note:	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.
Stability:	12 months from date of despatch
Locus ID:	3417
UniProt ID:	O75874
Summary:	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 $\hat{\pm}$ -hydroxylation of phytanic acid.



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