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Datasheet for ABIN7318691

IDH1 Protein (Arg132His-Mutant) (His tag)

Overview

Quantity:	50 µg
Target:	IDH1
Protein Characteristics:	Arg132His-Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IDH1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IDH1 Protein (R132H, C-8His)
Sequence:	Met1-Leu414(Arg132His)
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)

Target Details

Background:	<p>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.</p> <p>Synonym: Isocitrate Dehydrogenase [NADP] Cytoplasmic, IDH, Cytosolic NADP-Isocitrate Dehydrogenase, IDP, NADP(+)-Specific ICDH, Oxalosuccinate Decarboxylase, IDH1, PICD</p>
Molecular Weight:	48.1 kDa
UniProt:	O75874
Pathways:	Warburg Effect

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 μ m filtered solution of 50 mM Tris, 200 mM NaCl, 10 % glycerol, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.