

32-8701: Recombinant Human Isocitrate Dehydrogenase 1/IDH1 (R132H, C-8His)

Gene : IDH1
Gene ID : 3417
Uniprot ID : O75874

Description

Source: E.coli.
MW :48.1kD.

Recombinant Human Isocitrate Dehydrogenase 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. 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.

Product Info

Amount : 10 μ g / 50 μ g
Content : Supplied as a 0.2 μ m filtered solution of 50mM Tris, 200mM NaCl, 10% glycerol, pH8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MSKKISGGSVVEMQGDGMTRIIWELIKEKLIFPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKHNVGVKCAT
ITPDEKRVVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVSGWVKPIIIGHHAYGDQYRATDFVVPGPVK
VEITYTPSDGTQKVTVLVHNFEEGGGVAMGMYNQDKSIEDFAHSSFQMALSKGWPLYLSTKNTILKKYDGRFK
DIFQEYDKQYKSQFEAQKIWYEHRLIDDMVAQAMKSEGGFIWACKNYDGDVQSDSVAQGYGSLGMMTSVLV
CPDGKTVEAAAHGTVTRHYRMYQKGQETSTNPIASIFAWTRGLAHRKLDNNKELAFFANALEEVSIETIEAGF
MTKDLAACIKGLPNVQRSDYLNTFEFMDKLGENLKIKLAQAKLSLEHHHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/ μ g (1 IEU/ μ g).