

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

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

Gene ID : 3417 **Uniprot ID :** 075874

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 a-hydroxylation of phytanic acid.

Product Info

Amount : $10 \mu g / 50 \mu g$

Content: Supplied as a 0.2 μm 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: MSKKISGGSVVEMQGDEMTRIIWELIKEKLIFPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKHNVGVKCAT

ITPDEKRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVSGWVKPIIIGHHAYGDQYRATDFVVPGPGK VEITYTPSDGTQKVTYLVHNFEEGGGVAMGMYNQDKSIEDFAHSSFQMALSKGWPLYLSTKNTILKKYDGRFK DIFQEIYDKQYKSQFEAQKIWYEHRLIDDMVAQAMKSEGGFIWACKNYDGDVQSDSVAQGYGSLGMMTSVLV CPDGKTVEAEAAHGTVTRHYRMYQKGQETSTNPIASIFAWTRGLAHRAKLDNNKELAFFANALEEVSIETIEAGF

MTKDLAACIKGLPNVQRSDYLNTFEFMDKLGENLKIKLAQAKLSLEHHHHHHHH

Application Note

Endotoxin: Less than 0.1 ng/ $\tilde{A} \square \hat{A} \mu g$ (1 IEU/ $\tilde{A} \square \hat{A} \mu g$).