

IDH1, 1-414aa, Human, His tag, E.coli

Cat.NO.: TP02553

3th Edition

Synonyms: Isocitrate dehydrogenase [NADP] cytoplasmic, IDCD, IDH, IDP, IDPC, PICD.

Description: IDH1, also known as isocitrate dehydrogenase (IDHC) cytoplasmic enzyme, belongs to the isocitrate and isopropylmalate dehydrogenases family. This protein catalyzes the third step of the citric acid cycle, which involves the oxidative decarboxylation of isocitrate, forming α -ketoglutarate and CO₂ in a two step reaction.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT, 0.1mM PMSF

Molecular Weight: 48.8 kDa (434aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMSKKISGGSSVEMQGDEMTRIIEWELIKEKLIFPYVELDLHSYDLGIENRDATNDQV
TKDAAEAIKKHNVGVKCATITPDEKRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVSGWVKPIIIGRHAY
GDQYRATDFVVPGPVKVEITYTPSDGTQKVTVLVHNFEEGGGVAMGMYNQDKSIEDFAHSSFQMALSKGWPLYL
STKNTILKKYDGRFKDIFQEIYDKQYKSQFEAQKIWYEHRLIDDMVAQAMKSEGGFIWACKNYDGDVQSDSVAQGY
GSLGMMTSVLVCPDGKTVEAAAHGTVTRHYRMYQKGQETSTNPIASIFAWTRGLAHRKLDNNKELAFFANALE
EVSITIEAGFMTKDLAACIKGLPNVQRSDYLNTFEFMDKLGLENLKIKLAQAKL

Purity: > 95% by HPLC

Concentration: 1.0 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 μ g of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.