# abcam

### Product datasheet

## Recombinant human IDH1 protein ab113858

2 References 1 Image

Description

Description		
Product name	Recombinant human IDH1 protein	
Biological activity	per minute at pH7.5 at 25C.	nl. One unit will convert 1.0 umole of isocitrate to alpha-ketoglutarate Specific activity: > 0.7 units/ml. One unit will convert 1.0 umole of rate per minute at pH7.5 at 25C.
Purity	> 95 % SDS-PAGE. ab113858 was purified using	g conventional chromatography.
Expression system	Escherichia coli	
Accession	<u>075874</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence		<ul> <li>MGSSHHHHHHSSGLVPRGSHMSKKISGGSVVEMQGDE MTRIIWELIKEKL</li> <li>IFPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKHNVGV KCATITPDE</li> <li>KRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVS GWVKPIII</li> <li>GRHAYGDQYRATDFVVPGPGKVEITYTPSDGTQKVTYLVH NFEEGGGVAM</li> <li>GMYNQDKSIEDFAHSSFQMALSKGWPLYLSTKNTILKKYD GRFKDIFQEI</li> <li>YDKQYKSQFEAQKIWYEHRLIDDMVAQAMKSEGGFIWAC KNYDGDVQSDS</li> <li>VAQGYGSLGMMTSVLVCPDGKTVEAEAAHGTVTRHYRMY QKGQETSTNPI</li> <li>ASIFAWTRGLAHRAKLDNNKELAFFANALEEVSIETIEAGF MTKDLAACI</li> <li>KGLPNVQRSDYLNTFEFMDKLGENLKIKLAQAKL</li> </ul>
Predicted molecular weight	49 kDa including tags	KOLFINV QKOD I LINI FEFIVIDALGEINLAIKLAQAKL
Amino acids	1 to 414	
Tags	His tag N-Terminus	
	. no tag i ti formindo	

#### Specifications

Our <u>Abpromise guarantee</u> covers the use of ab113858 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry
	SDS-PAGE
Mass spectrometry	MALDITOF
Form	Liquid
Additional notes	This product was previously labelled as lsocitrate dehydrogenase

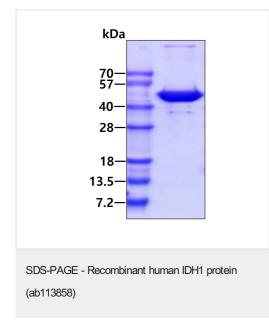
#### Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or - 80°C. Avoid freeze / thaw cycle.
	pH: 8.00 Constituents: 0.002% PMSF, 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

#### **General Info**

Involvement in disease	Glioma Genetic variations are associated with cartilaginous tumors such as enchondroma or chondrosarcoma. Mutations of Arg-132 to Cys, Gly or His abolish the conversion of isocitrate to alpha-ketoglutarate. Instead, alpha-ketoglutarate is converted to R(-)-2-hydroxyglutarate.
Sequence similarities	Belongs to the isocitrate and isopropylmalate dehydrogenases family.
Post-translational modifications	Acetylation at Lys-374 dramatically reduces catalytic activity.
Cellular localization	Cytoplasm. Peroxisome.

#### Images



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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