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		 MGSSHHHHHHSSGLVPRGSHMSKKISGGSVVEMQGDE MTRIIWELIKEKL IFPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKHNVGV KCATITPDE KRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVS GWVKPIII GRHAYGDQYRATDFVVPGPGKVEITYTPSDGTQKVTYLVH NFEEGGGVAM GMYNQDKSIEDFAHSSFQMALSKGWPLYLSTKNTILKKYD GRFKDIFQEI YDKQYKSQFEAQKIWYEHRLIDDMVAQAMKSEGGFIWAC KNYDGDVQSDS VAQGYGSLGMMTSVLVCPDGKTVEAEAAHGTVTRHYRMY QKGQETSTNPI ASIFAWTRGLAHRAKLDNNKELAFFANALEEVSIETIEAGF MTKDLAACI KGLPNVQRSDYLNTFEFMDKLGENLKIKLAQAKL
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

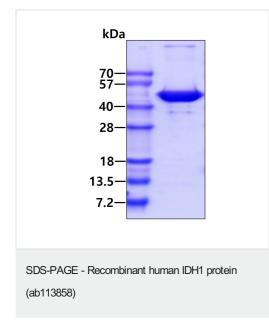
Preparation and Storage

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"

Our Abpromise to you: Quality guaranteed and expert technical support

- · Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <u>https://www.abcam.com/abpromise</u> or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors