

Recombinant human IDH2 protein ab198092

1 References 2 Images

Description

Product name Recombinant human IDH2 protein

Biological activity Specific Activity: 14,200 pmol/min/μg.

Assay Conditions:
The reaction mixture contained 50 mM Tris, pH 7.4, 5 mM MgCl₂, 200 μM DL-isocitrate, 200 μM NADP⁺, and various amount of ab198092 in a volume of 200 μL. Reactions were initiated with the addition of ab198092, and the increase in NADPH absorbance at 340 nm was continuously monitored for 7 min. Molar extinction coefficient of NADPH is 6,220 M⁻¹cm⁻¹.

Purity >= 59 % SDS-PAGE.
Affinity purified.

Expression system Baculovirus infected Sf9 cells

Accession **P48735**

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence
MAGYLRVVRSLCRASGSRPAWAPAALTAPTSQEQPRRH
YADKRIKVAKPV
VEMDGDEMTRIWQFIKEKLILPHVDIQLKYFDLGLPNRDQT
DDQVTIDS
ALATQKYSVAVKCATITPDEARVEEFKLKKMWKSPNGTIR
NILGGTVFRE
PIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVADRAGTF
KMFVTPKD
GSGVKEWEVYNFPAGGVGMGMYNNTDESISGFAHSCFQY
AIQKKWPLYMST
KNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWEHRLIDD
MVAQVLKS
SGGFVWACKNYDGDVQSDILAQQFGSLGLMTSVLVCPD
GKTIEAEEAAHGT
VTRHYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQD
LIRFAQMLEK

VCVETVESGAMTKDLAGCIHGLSNVKLNEHFLNTTDFLDTI
KSNLDRALG RQDYKDDDDK

Predicted molecular weight	52 kDa including tags
Amino acids	1 to 452
Tags	DDDDK tag C-Terminus
Additional sequence information	NM_002168.

Specifications

Our **Abpromise guarantee** covers the use of **ab198092** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies
Form	Liquid

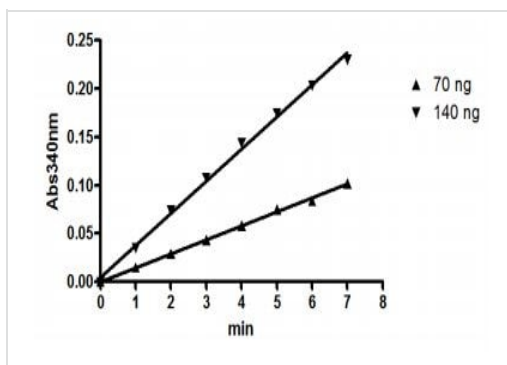
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.71% Tris HCl, 0.72% Sodium chloride, 0.02% Potassium chloride, 10% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol Contains 90 µg/ml DDDDK peptide. This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

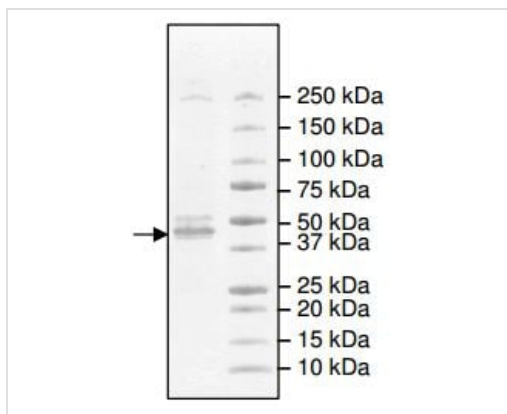
Function	Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex.
Involvement in disease	D-2-hydroxyglutaric aciduria 2 Glioma Genetic variations are associated with cartilaginous tumors such as enchondroma or chondrosarcoma.
Sequence similarities	Belongs to the isocitrate and isopropylmalate dehydrogenases family.
Post-translational modifications	Acetylation at Lys-413 dramatically reduces catalytic activity. Deacetylated by SIRT3.
Cellular localization	Mitochondrion.

Images



Activity assay of ab198092.

Functional Studies - Recombinant human IDH2 protein (ab198092)



10% SDS-PAGE analysis of 1.4 µg ab198092 with Coomassie staining.

SDS-PAGE - Recombinant human IDH2 protein (ab198092)

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

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