

Recombinant human Glutaminase protein ab198065

2 Images

Description	
Product name	Recombinant human Glutaminase protein
Biological activity	<p>Specific Activity: ≥ 25 nmol/min/μg</p> <p>Assay Conditions: The reaction mixture contained 100 mM Tris, pH 8.6, 150 mM K<sub>2</sub>HPO<sub>4</sub>, 25 mM L-glutamine, 2 mM NAD<sup>+</sup>, 4 units of GDH, and various amounts of ab198065 in a volume of 200 μl. Reactions were initiated with the addition of ab198065, and the increase in NADH absorbance at 340 nm was continuously monitored for 7 minutes at 37°C. Molar extinction coefficient of NADH is 6,220 M<sup>-1</sup>cm<sup>-1</sup>.</p>
Purity	>= 74 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u><a href="#">O94925</a></u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>M HHHHHH SPAGVSATLRRRAQPLVTLCRRPRGGGRPAAGPAAARLH PWWGGGGWP AEPLARGLSSSPSEILQELGKGSTHPQPGVSPPAAPAAP GPKDGPGETDAF GNSEGKE LVASGENKIKQGLLPSLEDLLFYTAE GQEKIPVHKFITALKSTGLRTSDP RLKECMDML RLTLQTTSDGVML DKDLFKKCVQSNVLLTQAFRRKFVIPDFMSFTSHIDE LYESAKKQS GGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKVP FCLQSCVKPL KYAIVNDL GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAG AMVTSLIKQGVNN AEKFDYV MQFLNKMAGNEYVGFSNATFQSERE</p>

SGDRNFAIGYYLKEKKCFPEGTDMVG ILDFYFQ  
LCSIEVTCESASV  
MAATLANGGFCPITGERVLSPEAVRNTLSLMHSCGMYD  
FSGQFAFH  
VGLPAKSGVAGGILLVVPNVMGMMCWSPPLDKMGNSVK  
GIHFCHDLVSLC N FHNYDN  
LRHFAKKLDPRREGGDQRVKSVINLLFAAYTGDVSALRR  
FALSAMDMEQRD YDSRTAL  
HVAAAEGHVEVVKFLLACKVNPFPKD  
RWNNTPMDEALHFGHHDVFKILQE YQVQYTP  
QGDS DNGKENQTVHK NLDGLL

<b>Predicted molecular weight</b>	73 kDa including tags
<b>Amino acids</b>	17 to 669
<b>Tags</b>	His tag N-Terminus
<b>Additional sequence information</b>	This product is for the mature full length protein from aa 17 to 669. The signal peptide is not included.

## Specifications

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Our **Abpromise guarantee** covers the use of **ab198065** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Liquid

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine), 0.04% Tween This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

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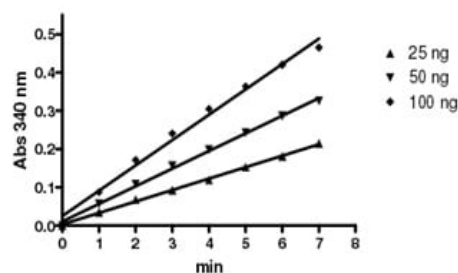
<b>Function</b>	Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine.
<b>Tissue specificity</b>	KGA is expressed predominantly in brain and kidney but not in liver, isoform 3 is expressed principally in cardiac muscle and pancreas but not in liver or brain, and isoform 2 is expressed solely in cardiac and skeletal muscle.
<b>Sequence similarities</b>	Belongs to the glutaminase family. Contains 1 ANK repeat.
<b>Cellular localization</b>	Mitochondrion.

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## Images

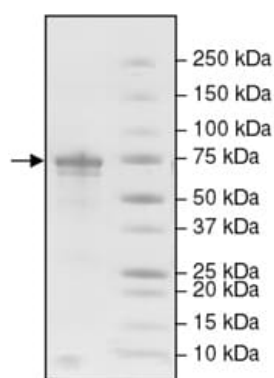
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### Specific Activity



Functional Studies - Recombinant human  
Glutaminase protein (ab198065)

Example of specific activity of ab198065



SDS-PAGE - Recombinant human Glutaminase  
protein (ab198065)

4-20% SDS-PAGE analysis of 4 µg ab198065 with Coomassie  
staining.

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

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