

Product datasheet

Recombinant Human Glutamine Synthetase protein
ab98145

2 Images

Description

| | |
|--------------------------|--|
| Product name | Recombinant Human Glutamine Synthetase protein |
| Purity | > 90 % SDS-PAGE. ab98145 was purified using conventional chromatography techniques. |
| Expression system | Escherichia coli |
| Accession | P15104 |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |

| | |
|-----------------|--|
| Sequence | <p>MGSSHHHHHSSGLVPRGSHMTTSASSHLNKGIKQV YMSLPQGEKVQAMY IWIDGTGEGLRCKTRTL DSEPKCVEELPEWNFDGSST LQSEGSNSDMLV PAAMFRDPFRKDPNKLVLCEVFKYNNRPAETNLRHTC KRIMDMVSNQHPW FGMEQEYTLMGTDGHPFGWPSNGFPGPQGPYYCGV GADRAYGRDVEAHY RACL YAGVKIAGTNAEVMPAQWEFQIGPCEGISMGDH LWVARFILHRVCE DFGVIATFDPKPIGNWNGAGCHTNFSTKAMREENGL KYIEEAIEKLSKR HQYHIRAYDPKGGLDNARRLTGFHETSNINDFSAGVAN RSASIRIPRTVG QEKKGYFEDRRPSANCDPFSVTEALIRTCLLNETGDE PFQYKN</p> |
|-----------------|--|

| | |
|-----------------------------------|-----------------------|
| Predicted molecular weight | 44 kDa including tags |
| Amino acids | 1 to 373 |
| Tags | His tag N-Terminus |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab98145** 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 Western blot |
| Mass spectrometry | MALDI-TOF |
| Form | Liquid |

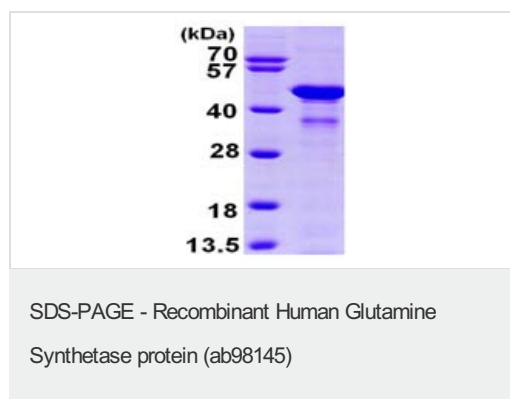
Preparation and Storage

| | |
|------------------------------|--|
| 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: 0.077% DTT, 0.316% Tris HCl, 20% Glycerol, 1.16% Sodium chloride |
|------------------------------|--|

General Info

| | |
|-------------------------------|---|
| Function | This enzyme has 2 functions: it catalyzes the production of glutamine and 4-aminobutanoate (gamma-aminobutyric acid, GABA), the latter in a pyridoxal phosphate-independent manner (By similarity). Essential for proliferation of fetal skin fibroblasts. |
| Involvement in disease | Defects in GLUL are the cause of congenital systemic glutamine deficiency (CSGD) [MIM:610015]. CSGD is a rare developmental disorder with severe brain malformation resulting in multi-organ failure and neonatal death. Glutamine is largely absent from affected patients serum, urine and cerebrospinal fluid. |
| Sequence similarities | Belongs to the glutamine synthetase family. |
| Developmental stage | Expressed during early fetal stages. |
| Cellular localization | Cytoplasm. Mitochondrion. |

Images



15% SDS-PAGE analysis of 3µg ab98145



Western blot - Recombinant Human Glutamine Synthetase protein (ab98145)

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 <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

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