# Recombinant Human GFAP protein, GST-tagged

**Cat. No.** GFAP-1307H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human GFAP Protein(NP_001124491.1)(83-432 aa) is expressed from E. coli with a GST Tag. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 83-432 aa |
| **Description** | This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. |
| **Form** | The purified protein was Lyophilized from sterile PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH7.4), 5% trehalose and 5% mannitol are added as protectants before lyophilization. |
| **Bio-activity** | Not tested |
| **AA Sequence** | YIEKVRFLEQQNKALAAELNQLRAKEPTKLADVYQAELRELRLRLDQLTANSARLEV ERDNLAQDLATVRQKLQDETNLRLEAENNLAAYRQEADEATLARLDLERKIESLEEEI RFLRKIHEEEVRELQEQLARQQVHVELDVAKPDLTAALKEIRTQYEAMASSNMHEAE EWYRSKFADLTDAAARNAELLRQAKHEANDYRRQLQSLTCDLESLRGTNESLERQ |

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| | MREQEERHVREAASYQEALARLEEEGQSLKDEMARHLQEYQDLLNVKLALDIEIATY RKLLEGEENRITIPVQTFSNLQIRETSLDTKSVSEGHLKRNIVVKTVEMRDGEVIKESK QEHKDVM |
| **Endotoxin** | <1.0 EU per μg protein as determined by the LAL method. |
| **Purity** | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Applications** | Blocking peptide |
| **Stability** | Store for up to 12 months at -20°C to -80°C as lyophilized powder. |
| **Storage** | Short-term storage: Store at 2-8°C for (1-2 weeks). Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles. |
| **Reconstitution** | Reconstitute at 0.25 g/μl in 200μl sterile water for short-term storage.<br>Reconstitution with 200μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).<br>If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).<br>Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below). |

## GENE INFORMATION

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| **Gene Name** | GFAP |

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| **Official Symbol** | GFAP |
| **Synonyms** | FLJ45472 |
| **Gene ID** | 2670 |
| **mRNA Refseq** | NM_001131019.3 |
| **Protein Refseq** | NP_001124491.1 |
| **MIM** | 137780 |
| **UniProt ID** | P14136 |
| **SDS-PAGE of GFAP-1307H** | |

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