

Recombinant Human GFAP protein, GST-tagged

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

SPECIFICATION

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 Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4), 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Bio-activity	Not tested
AA Sequence	YIEKVRFLEQQNKALAAELNQLRAKEPTKLADVYQAE LRELRLRLDQLTANSARLEV ERDNLAQDLATVRQKLQDETNLRLAENNLAAAYRQEAD EATLARLDLERKIESLEEEI RFLRKIH EEEVRELQEQLARQQVHV ELDVAKPDLTAALKEIRTQYEAMASSNMHEAE EWYRSKFADLTDA AARNAELLRQAKHEANDYRRQLQSLTCDLES LRGTNESLERQ

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MREQEERHVREAASYQEALARLEEEGQSLKDEMARHLQEYQDLLNVKLALDIEIATY
 RKLLEGEENRITIPVQTFSNLQIRETSLDTKSVSEGHCLKRNIVVKTVMRDGEVIKESK
 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 µg/µl in 200µl sterile water for short-term storage.
 Reconstitution with 200µl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).
 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).
 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

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
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