

# Recombinant Human GFAP protein

Catalog No.: RP03141 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2670	P14136

### Tags

N-His

### Synonyms

Glial fibrillary acidic protein; GFAP

## Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Glial Fibrillary Acidic Protein (GFAP) is an intermediate filament (IF) protein which belongs to the intermediate filament family. GFAP is expressed in numerous cell types of the central nervous system (CNS), ependymal cells and phosphorylated by PKN1. GFAP, a class-III intermediate filament, is a cell-specific marker during the development of the central nervous system and distinguishes astrocytes from other glial cells. It is closely related to its non-epithelial family members, vimentin, desmin, and peripherin, which are all involved in the structure and function of the cell's cytoskeleton. GFAP is thought to help to maintain astrocyte mechanical strength, as well as the shape of cells but its exact function remains poorly understood.

## Basic Information

### Description

Recombinant Human GFAP Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Leu292-Met432) of Human GFAP (Accession #NP\_002046.1) fused with His tag at the N-terminus.

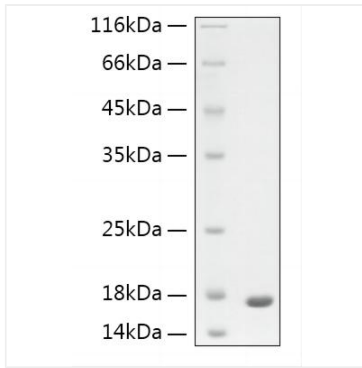
### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for 12 months. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human GFAP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 17 kDa.