Recombinant Human GFAP protein, His-tagged

Cat. No. GFAP-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GFAP (Leu292-Met432) fussed with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	292-432 a.a.
Description	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.
Form	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.25
AA Sequence	MGSSHHHHHHSSGLVPRGSHMLTCDLESLRGTNESLERQMREQEERHVREAASY QEALARLEEEG QSLKDEMARHLQEYQDLLNVKLALDIEIATYRKLLEGEENRITIPVQ TFSNLQIRETSLDTKSVS EGHLKRNIVVKTVEMRDGEVIKESKQEHKDVM

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.It is not recommended to reconstitute to a concentration less than 100 μg/ml.Dissolve the lyophilized protein in 1X PBS.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	GFAP glial fibrillary acidic protein [Homo sapiens]
Official Symbol	GFAP
Synonyms	ALXDRD; glial fibrillary acidic protein
Gene ID	2670
mRNA Refseq	NM_002055
Protein Refseq	NP_002046
MIM	137780
UniProt ID	P14136

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Chromosome Location	17q21
Pathway	Neural Crest Differentiation, organism-specific biosystem; Nuclear signaling by ERBB4, organism-specific biosystem; Signal Transduction, organism-specific biosystem
Function	integrin binding; kinase binding; protein binding

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