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Human recombinant GFAP protein, AF

Catalog Number: PROTP14136

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Overview

Product Name	Human recombinant GFAP protein, AF
Description	GFAP (Glial Fibrillary Acidic Protein) is a protein primarily found in CNS astrocytes. Increased GFAP immunoreactivity indicates gliosis, a response to neural damage. GFAP defects cause Alexander disease, a rare CNS disorder with astrocytic Rosenthal fiber accumulation. The infantile form leads to myelination failure and early mortality, while the juvenile or adult forms present with ataxia, bulbar signs, spasticity, progressing more gradually.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 51 kDa. The protein migrates as 50-55 kDa under reducing condition (SDS-PAGE analysis).

Activity

Testing in process

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Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

A DNA sequence encoding Human GFAP Protein (#P14136)(Met1-Met432) was expressed with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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For Research Use Only. Not for use in diagnostic procedures.