

Datasheet for ABIN3080596  
**GFAP Protein (AA 1-432) (His tag)**

## 3 Images

[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	GFAP
Protein Characteristics:	AA 1-432
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFAP protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence: MHHHHHHERR RITSAARRSY VSSGEMMVGG LAPGRRLGPG TRLSLARMPP PLPTRVDFSL AG  
ALNA GFKETRASER AEMMELNDRF ASYIEKVRFL EQQNKALAAE LNQLRAKEPT KLADVYQAEI  
RELRLRLDQL TANSARLEVE RDNLAQDLAT VRQKLQDET NLRLEAENNL AAYRQEAD EAT  
LARLDLERKI ESLEEEIRFL RKIHEEEVRE LQEQLARQQV HVELDVAKPD LTAALKEIRT  
QYEAMASSNM HEAEWYRSK FADLTDAAR NAELLRQAKH EANDYRRQLQ SLTCDLES LR  
GTNESLERQM REQEERHVRE AASYQEALAR LEEEGQSLKD EMARHLQEYQ DLLNVKLALD  
IEIATYRKLL EGEENRITIP VQTFSNLQIR ETSLDTKSVS EGH LKRNIVV KTVEMRDGEV  
IKESKQEHKD VM

**Sequence includes N-terminal His-tag**

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Human PLP1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

## Product Details

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	The protein is purified from the cleared cell lysate using EDTA and DTT resistant His-tag capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

## Target Details

Target:	GFAP
Alternative Name:	GFAP ( <a href="#">GFAP Products</a> )
Background:	GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.
Molecular Weight:	50.8 kDa Including tag
UniProt:	<a href="#">P14136</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

## Application Details

Restrictions: For Research Use only

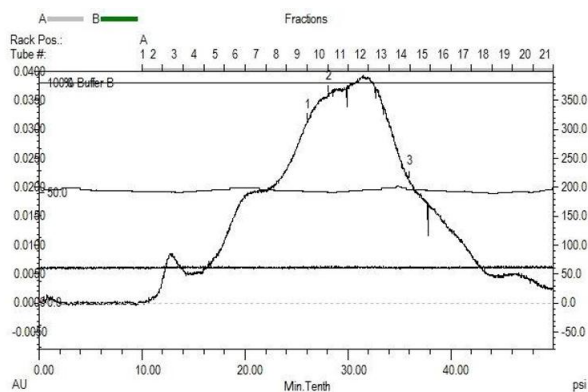
## Handling

Format:	Liquid
Buffer:	In solution (20 mM Hepes, pH 7.4, 100 mM NaCl, 2 mM EDTA)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

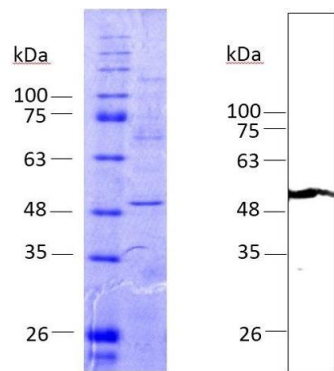
## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process



**Image 2.**



Glial Fibrillary Acidic Protein (GFAP)  
(AA 1-432), fraction 7 - 9

**Image 3.**