

# Recombinant human ASPA protein

Catalog Number: ATGP1421

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-313aa

### UniProt No.

P45381

### NCBI Accession No.

NP\_000040.1

### Alternative Names

Aspartoacylase, ACY2, ASP

## PRODUCT SPECIFICATION

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### Molecular Weight

38.1 kDa (336aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl, 0.1mM PMSF

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

ASPA, also known as aspartoacylase, is expressed in liver, lung and kidney tissue, as well as in skeletal muscle and in cerebral white matter. Existing as a homodimer, Aspartoacylase functions to catalyze the deacetylation of N-acetylaspartic acid (NAA) (a protein whose hydrolysis is crucial to maintenance of intact white matter) to produce acetate and L-aspartate. Recombinant human ASPA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MTSCHIA EEHIQKVAIF GGTHGNELTG VFLVKHWLEN GAEIQTGLE  
VKPFITNPRA VKKCTRYIDC DLNRIFDLEN LGKKMSEDLP YEVRRAQEIN HLFQPKDSED SYDIIFDLHN TTSNMGCTLI  
LEDSRNNFLI QMFHYIKTSL APLPCYVYLI EHPSLKYATT RSIKYPVGI EVGPQPQGVV RADILDQMRK MIKHALDFIH  
HFNEGKEFPP CAIEVYKIIIE KVDYPRDENG EIAAIIHPNL QDQDWKPLHP GDPMFLTLTG KTIPLGGDCT VYPVFNVEAA  
YYEKKEAFK TTKLTLNAKS IRCCLH

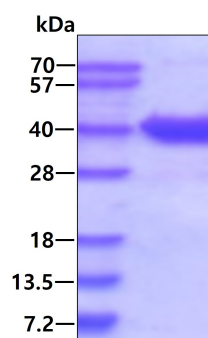
## General References

Le Coq. et al. (2006) Biochemistry 45: 5878-5884.

Le Coq. et al. (2008) Biochemistry 47: 3484-3492.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.