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# **Recombinant human ASPA protein**

Catalog Number: ATGP3289

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-313aa

#### UniProt No.

P45381

#### **NCBI Accession No.**

NP 000040

#### **Alternative Names**

ACY2. ASP

### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

35.7 kDa (313aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

Non-Tagged

#### **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**

#### **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, ASPA 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, was expressed in E. coli and purified by conventional chromatography techniques.



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## **Amino acid Sequence**

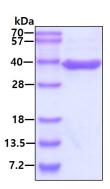
MTSCHIAEEH IQKVAIFGGT HGNELTGVFL VKHWLENGAE IQRTGLEVKP FITNPRAVKK CTRYIDCDLN RIFDLENLGK KMSEDLPYEV RRAQEINHLF GPKDSEDSYD IIFDLHNTTS NMGCTLILED SRNNFLIQMF HYIKTSLAPL PCYVYLIEHP SLKYATTRSI AKYPVGIEVG PQPQGVLRAD ILDQMRKMIK HALDFIHHFN EGKEFPPCAI EVYKIIEKVD YPRDENGEIA AIIHPNLQDQ DWKPLHPGDP MFLTLDGKTI PLGGDCTVYP VFVNEAAYYE KKEAFAKTTK LTLNAKSIRC CLH

#### **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

