

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

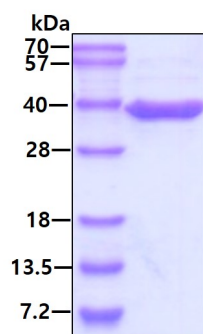
MTSCHIAEEH IQKVAIFGGT HGNELTGVFL VKHWLENGAE IQRTGLEVKP FITNPRAVKK CTRYIDCDLN RIFDLENLGK
KMSEDLPYEV RRAQEINHLEF GPKDSEDSYD IIFDLHNTTS NMGCTLILED SRNNFLIQMF HYIKTSLAPL PCYVYLIEHP
SLKYATTRSI AKYPVGIEVG PQQQVLRAD ILDQMRMKIK HALDFIHHFN EGKEFP PCAI EVYKIIKVD YPRDENG EIA
AIIHPNLQDQ DWKPLHPGDP MFLTLDGKTI PLGGDCTVYP VVFNAAAYE KKEAFKTTK 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



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain