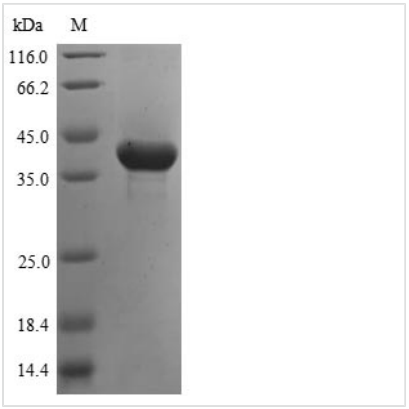
Recombinant Human Aspartoacylase (ASPA)

Product Code	CSB-YP002223HU
Relevance	Catalyzes the deacetylation of N-acetylaspartic acid (NAA) to produce acetate and L-aspartate. NAA occurs in high concentration in brain and its hydrolysis NAA plays a significant part in the maintenance of intact white matter. In other tissues it act as a scavenger of NAA from body fluids.
Abbreviation	Recombinant Human ASPA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P45381
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MTSCHIAEEHIQKVAIFGGTHGNELTGVFLVKHWLENGAEIQRTGLEVKPFITN PRAVKKCTRYIDCDLNRIFDLENLGKKMSEDLPYEVRRAQEINHLFGPKDSEDS YDIIFDLHNTTSNMGCTLILEDSRNNFLIQMFHYIKTSLAPLPCYVYLIEHPSLKY ATTRSIAKYPVGIEVGPQPQGVLRADILDQMRKMIKHALDFIHHFNEGKEFPPC AIEVYKIIEKVDYPRDENGEIAAIIHPNLQDQDWKPLHPGDPMFLTLDGKTIPLG GDCTVYPVFVNEAAYYEKKEAFAKTTKLTLNAKSIRCCLH
Research Area	Signal Transduction
Source	Yeast
Target Names	ASPA
Protein Names	Aminoacylase-2 ACY2, ASP
Expression Region	1-313aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	39.7 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Enhance your signal transduction research with our high-quality Recombinant Human ASPA protein. Aspartoacylase, also known as Aminoacylase-2 or ACY-2, is a crucial enzyme responsible for the hydrolysis of N-acetyl-L-aspartic acid (NAA) into aspartate and acetate within the central nervous system. This enzyme has significant implications in neural development, myelin maintenance, and various neurodegenerative disorders.

Derived from yeast expression systems, our recombinant ASPA protein is a full-length construct spanning the 1-313aa region, specifically designed to facilitate your scientific investigations. The N-terminal 10xHis-tag and C-terminal Myc-tag enable seamless protein purification and detection. With a purity greater than 85% as determined by SDS-PAGE, our Recombinant Human ASPA protein is provided in a lyophilized powder format, ensuring optimal results in your signal transduction studies.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
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