
Product Data Sheet

Product Name: ASPA Human
 Cat. No.: GP21421
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Aspartoacylase; Aminoacylase-2; ACY-2; ASPA; ACY2; ASP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTSCHIA EEHIQKVAIF GGTHGNELTG VFLVKHWLEN GAEIQRGTGLE VKPFITNPRA VKKCTRYIDC DLNRIFDLEN LGKKMSEDLP YEVRRAQEIN HLFGPKDSED SYDIIFDLHN TTSNMGCTLI LEDSRNRFI QMFHYIKTSL APLPCYVYLIEHPSLKYATT RSIKYPVGI EVGPQPQGV L RADILDQMRK MIKHALDFIH HFNEGKEFPP CAIEVYKIIIE KVDYPRDENG EIAAIIHPNL QDQDWKPLHP GDPMFLTLDG KTIPLGGDCT VYPVFNVEAA YYEKKEAFK TTKLTLNAKS IRCCLH.		
Formulation	The ASPA solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT, 0.1M NaCl and 0.1mM PMSF.		

Introduction

Aspartoacylase is a homodimer which catalyzes the deacetylation of N-acetylaspartic acid (NAA) (a protein whose hydrolysis is crucial to maintenance of intact white matter) to generate acetate and L-aspartate. Aspartoacylase (ASPA) is expressed in the liver, lung and kidney tissue, as well as in the skeletal muscle and in cerebral white matter. NAA is ample in the brain where hydrolysis by aspartoacylase is believed to aid maintain white matter. In other tissues ASPA functions as a scavenger of NAA from body fluids. ASPA gene mutations cause Canavan disease (CAND or spongy degeneration of the brain).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

ASPA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 336 amino acids (1-313) and having a molecular mass of 38.1kDa. ASPA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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