

Aminoacylase-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75514
Synonyms:	Aminoacylase-1; ACY-1; N-acyl-L-amino-acid amidohydrolase; Acy1
Species:	Mouse
Source:	HEK293
Accession:	Q99JW2 (M1-S408)
Gene ID:	109652
Molecular Weight:	Approximately 55 kDa

PROPERTIES

AA Sequence	<pre> MTTKDP ESEH PSVTLFRQYL RICTVQPNPD YGGAITFLEE RARQLGLSCQ KIEVVPGFVI TVLTWPGTNP SLPSILLNSH TDVVPVFKEH WHHDPFEAFK DSEGYIYARG SQDMKSVS IQ YLEAVRRLKS EGHFRFRTIH MTFVPDEEVG GHKGMELFVK RPEFQALRAG FALDEGLANP TDAFTVIFYSE RSPWWVRVTS TGKPGHASRF IEDTAAEKLH KVISSILAFR EKERQRLQAN PHLKEGAVTS VNLTKLEGGV AYNVVPATMS ASFDFRVAPD VDMKAFEKQL QRWCQEAGEG VTFEFAQKFT EPRMTPTDDS DPWWAAFSGA CKAMNLTLEP EIFPAATDSR YIRAVGIPAL GFS PMN RTPV LLHDHNERLH EDIFLRGVDI YTGLLSALAS </pre>
Biological Activity	Measured by its ability to cleave N-acetyl-L-Methione (Ac-Met). The specific activity is 19928.580 pmol/min/μg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Aminoacylase-1 is an enzyme that catalyzes the hydrolysis of N-acetylated amino acids, leading to the production of acetate and free amino acids. This enzymatic activity is part of the process of amino acid metabolism, where N-acetylated amino acids are cleaved to release the corresponding amino acids and acetate. Aminoacylase-1's role in this hydrolytic reaction contributes to the regulation of amino acid levels and is essential for maintaining cellular homeostasis. This enzyme plays a key part in the intricate network of metabolic pathways governing amino acid utilization and is involved in processes such as protein synthesis and energy production.

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

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