

AR51951PU-N**Mouse Aminoacylase-1 / ACY1 (1-408, His-tag) - Purified****Alternate names:**

ACY-1, N-acyl-L-amino-acid amidohydrolase

Quantity:

0.1 mg

Concentration:

0.25 mg/ml (determined by absorbance at 280nm)

Background:

Acy1 also known as Aminoacylase1. The protein is a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. ACY1 has been assigned to chromosome 3p21.1, a region reduced to homozygosity in small-cell lung cancer (SCLC), and its expression has been reported to be reduced or undetectable in SCLC cell lines and tumors.

Uniprot ID:[Q99IW2](#)**NCBI:**[AAH05631](#)**GeneID:**[109652](#)**Species:**

Mouse

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol.**Description:**

Recombinant mouse Acy1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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MGSSHHHHHH SSGLVPRGSH MGSEFMTTKD PESEHPSVTL FRQYLRICTV QPNPDYGGAI
TFLEERARQL GLSCQKIEVV PGFVITVLTW PGTNPSLPSI LLNSHTDVVP VFKEHWHHDP
FEAFKDSEGY IYARGSQDMK SVSIQYLEAV RRLKSEGHFR PRTIHMFFVP DEEVGGHKGM
ELFVKRPEFQ ALRAGFALDE GLANPTDAFT VFYSERSPWW VRVSTGKPG HASRFIEDTA
AEKLNKVISS ILAFREKERQ RLQANPHLKE GAVTSVNLTK LEGGVAYNVV PATMSASFDF
RVAPDVMKA FEKQLQRWCQ EAGEGVTFEF AQKFTEPRMT PTDDSDPWWA AFSGACKAMN
LTLEPEIFPA ATDSRYIRAV GIPALGFSPM NRTPVLLHDH NERLHEDIFL RGVDIYTGLL
SALASVPTLP GES
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Molecular weight: 48.4 kDa (433aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

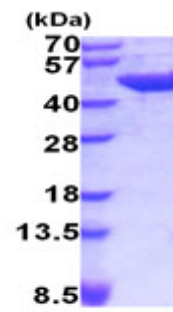
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Miller YE, Drabkin H, et al. (1991) Genomics 8 (1): 149-154. Voss R, et al. (1982) Ann Hum Genet 44 (Pt 1): 1-9.

Pictures:



15% SDS-PAGE (3ug)