

Recombinant Mouse Acy1, His-tagged

Cat. No. Acy1-111M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Acy1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
Description	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.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol
Molecular Mass	48.4kDa (433aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFMTTKD PESEHPSVTL FRQYLRICTV QPNPDYGGAI TFLEERARQL GLSCQKIEVV PGFVITVLTWPGTNPSLPSI LLNSHTDVVP VFKEHWHHDP FEAFKDSEGY IYARGSQDMK SVSIQYLEAV RRLKSEGHRF PRTIHMTFVP DEEVGGHKGM ELFVKRPEFQ ALRAGFALDE GLANPTDAFT VFYSERSPPWW VVRTSTGKPG HASRFIEDTA AEKLHKVISS ILAFREKERQ RLQANPHLKEGAVTSVNLTK LEGGVAYNVV PATMSASFDF RVAPDVDMKA FEKQLQRWCQ EAGEGVTFEF AQKFTEPRMT PTDDSDPWWA

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AFSGACKAMN LTLEPEIFPA ATDSRYIRAV GIPALGFSPM NRTPVLLHDH
NERLHEDIFL RGVDIYTGLL SALASVPTLP GES

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [Acy1 aminoacylase 1 \[Mus musculus \]](#)

Official Symbol [Acy1](#)

Synonyms ACY1; aminoacylase 1; aminoacylase-1; N-acyl-L-amino-acid amidohydrolase; Acy-1; 1110014J22Rik;

Gene ID [109652](#)

mRNA Refseq [NM_025371](#)

Protein Refseq [NP_079647](#)

Pathway Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Urea cycle and metabolism of amino groups, organism-specific biosystem;

Function aminoacylase activity; hydrolase activity; metal ion binding; metalloproteinase activity;

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