

Recombinant mouse **Acy1** protein

Catalog Number: ATGP3131

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-408aa

UniProt No.

Q99JW2

NCBI Accession No.

AAH05631

Alternative Names

Aminoacylase 1, ACY-1, Acy1, ACY1_HUMAN, ACY1D, ACYLASE, Acylase I, Aminoacylase-1, EC 3.5.1.14, epididymis secretory protein Li 5, H₂L-S-5, N acyl L amino acid amidohydrolase, N-acyl-L-amino-acid amidohydrolase, OTTHUMP00000212459, OTTHUMP00000212462, OTTHUMP00000212463, OTTHUMP00000212464, OTTHUMP00000212465

PRODUCT SPECIFICATION

Molecular Weight

48.4 kDa (433aa) confirmed by MALDI-TOF

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSEFMTTKD PESEHPSVTL FRQYLRICTV QPNPDYGGAI TFLEERARQL GLSCQKIEVV
PGFVITVLTW PGTNPPLPSI LLNSHTDVVP VFKEHWHHDP FEAFKDSEGY IYARGSQDMK SVSIQYLEAV RRLKSEGHRF
PRTIHMTFVP DEEVGGHKGM ELVVKRPEFQ ALRAGFALDE GLANPTDAFT VFYSERSPWW VRVTSTGKPG HASRFIEDTA
AEKLHKVISS ILAFREKERQ RLQANPHLKE GAVTSVNLTK LEGGVAYNVV PATMSASFDF RVAPDVMKA FEKQLQRWCQ
EAGEGVTFEF AQKFTEPRMT PTDDSDPWWA AFSGACKAMN LTLEPEIFPA ATDSRYIRAV GIPALGFSPM NRTPVLLHDH
NERLHEDIFL RGVDIYTGLL SALASVPTLP GES

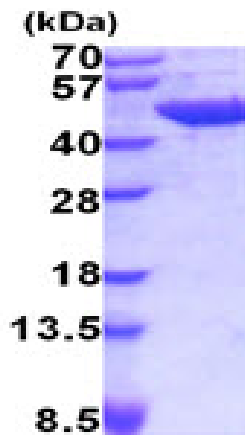
General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)