

## Recombinant Human ACY1

Catalog No: #GP11030



Package Size: #GP11030-1 100ug

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## Description

Product Name	Recombinant Human ACY1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to C terminal 250 amino acids of human aminoacylase 1
Target Name	aminoacylase 1
Other Names	ACY-1; ACY1D
Accession No.	Swissprot:Q03154Gene Accession:BC000545
Uniprot	Q03154
GeneID	95;
Storage	-20~-80°C, pH 7.6 PBS

## Background

This gene encodes a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and an acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. This gene is located on 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. The amino acid sequence of human aminoacylase-1 is highly homologous to the porcine counterpart, and this enzyme is the first member of a new family of zinc-binding enzymes. Mutations in this gene cause aminoacylase-1 deficiency, a metabolic disorder characterized by central nervous system defects and increased urinary excretion of N-acetylated amino acids. Alternative splicing of this gene results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ABHD14A (abhydrolase domain containing 14A) gene, as represented in GeneID:100526760. A related pseudogene has been identified on chromosome 18.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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