

## Recombinant Human ACY1 Protein, MYC/DDK-tagged

**Cat. No.** ACY1-1153H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant human ACY1 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.

**Species**                      Human

**Source**                        HEK293

**Description**

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. [provided by RefSeq, Nov 2010].

**Form**                            25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

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<b>Molecular Mass</b>	45.7 kDa
<b>Purity</b>	>50 ug/mL as determined by microplate BCA method
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

<b>Gene Name</b>	ACY1 aminoacylase 1 [ Homo sapiens ]
<b>Official Symbol</b>	ACY1
<b>Synonyms</b>	ACY-1; ACY1D; HEL-S-5
<b>Gene ID</b>	95
<b>mRNA Refseq</b>	NM_000666
<b>Protein Refseq</b>	NP_000657
<b>MIM</b>	104620
<b>UniProt ID</b>	Q03154

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