

Recombinant Human ACY1 Protein, GST-tagged

Cat. No. ACY1-262H Lot. No. (See product label)

SPECIFICATION

Product Overview Human ACY1 full-length ORF (AAH00545, 1 a.a. - 408 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

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]

Molecular Mass 70.62 kDa

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AA Sequence	<p>MTSKGPAEEHPSVTLFRQYLRIQVQPKPDYGAAVAFFETARQLGLGCQKVEVAP GYVVTVLTWPGTNPTLSSILLNSHTDVVPVFKHWSHDPFEAFKDSEGYIYARGAQD VKCVSIQYLEAVRRLKVEGHRFPRTIHMTFVPDEEVGGHQGMELFVQRPEFHALRA GFALDEGIANPTDAFTVFYSERSPPWWVRVTSTGRPGHASRFMEDTAAEKLHKVVNS ILAFREKEWQRLQSNPHLKEGSVTSVNLTKLEGGVAYNVIPATMSASFDFRVAPDVD FKAFFEEQLQSWCQAAGEGVTLEFAQKWMHPQVTPDDSNPWWAAFSRVCKDMNL TLEPEIMPAATDNRYIRAVGVPALGFSPMNRTPVLLHDHDERLHEAVFLRGVDIYTRL LPALASVPALPSDS</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ACY1 aminoacylase 1 [Homo sapiens]
Official Symbol	ACY1
Synonyms	ACY1; aminoacylase 1; aminoacylase-1; acylase; N-acyl-L-amino-acid amidohydrolase; ACY-1; ACY1D;
Gene ID	95

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mRNA Refseq [NM_000666](#)

Protein Refseq [NP_000657](#)

MIM [104620](#)

UniProt ID [Q03154](#)



12.5% SDS-PAGE Stained with Coomassie Blue.

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