

Recombinant Human ACY1, His-tagged

Cat. No. ACY1-27198TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length protein (Human). This protein has a T7 tag at the N-terminus.

Species Human

Source E.coli

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.

Conjugation HIS

Tissue specificity Expression is highest in kidney, strong in brain and weaker in placenta and spleen.

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 0.002% Sodium Azide Constituents: 10mM Tris, 0.1% Triton X-100, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase M20A family.
Full Length	Full L.

GENE INFORMATION

Gene ID	ACY1 aminoacylase 1 [Homo sapiens]
Official Symbol	ACY1
Synonyms	ACY1; aminoacylase 1; aminoacylase-1;

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