

**Product:** AminoAcylase-1, human, recombinant  
**Catalog #:** 12-4353  
**Amount:** 5 µg

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**DESCRIPTION:**

Recombinant human AminoAcylase-1 (rHuACY1)  
Aminoacylase-1 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 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 ACY1 is the first member of a new family of zinc-binding enzymes. Recombinant Human ACY-1 produced in E.Coli is a non-glycosylated, polypeptide chain containing amino acids 1-408 and having a total molecular mass of 46.9 kda.  
rhACY1 contains T7 tag at N-terminus and is purified by proprietary chromatographic techniques.

**SOURCE:**

*Escherichia coli*

**PURITY:**

> 95%, as determined by SDS-PAGE coomassie blue staining

**FORM:**

Purified, in 10 mM Tris, pH 8.0, 0.1% Triton X-100 and 0.002% NaN<sub>3</sub>

**APPLICATION:**

ELISA; MS; Inhibition Assays, Immunoblotting (western)

**STORAGE:**

-20°C (aliquot), avoid freezing and thawing cycles

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