Creative Enzymes®

AminoAcylase-1 from Human, Recombinant

Cat. No. NATE-0810

Lot. No. (See product label)

Introduction

Description	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.
Synonyms	N-acyl-L-amino-acid amidohydrolase; ACY-1, ACY1D; ACYLASE; ACY1; aminoacylase 1; aminoacylase I; dehydropeptidase II; histozyme; hippuricase; benzamidase; acylase I; hippurase; amido acid deacylase; L-aminoacylase; acylase; aminoacylase; L-amino-acid acylase; α-N-acylaminoacid hydrolase; long acyl amidoacylase; short acyl amidoacylase

Product Information

Species	Human
Source	E. coli
Appearance	Sterile Filtered clear solution.
Molecular Weight	48 kDa
Purity	Greater than 90.0% as determined by SDS-PAGE.
Buffer	The ACY1 solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.

Storage and Shipping Information

Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.