

## 32-2115: ACY1 Recombinant Protein

**Alternative Name :** N-acyl-L-amino-acid amidohydrolase,ACY-1,ACY1D,ACYLASE,ACY1.

### Description

Source : Escherichia Coli. ACY1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 428 amino acids (1-408 a.a.) and having a molecular mass of 48kDa. The ACY1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	The ACY1 solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MTSKGPEEEH PSVTLFRQYL RIRTVQPKPD YGA AVAFFEE TARQLGLGCQ KVEVAPGYV TVLTWPGTNP TLSSILLNSH TDVVPVFKEH WSHDPFEAFK DSEGYYARG AQDMKCVSIQ YLEAVRRLKV EGHRFPRTIH MTFVPDEEVG GHQGMELFVQ RPEFHALRAG FALDEGIANP TDAFTVFYSE RSPWVVRVTS TGRPGHASRF MEDTAAEKHL KVVNSILAFR EKEWQRLQSN PHLKEGSVTS VNLTKEGGV AYNVIPATMS ASFDFRVAPD VDFKAFEEQL QSWCQAAGEG VTLEFAQKWM HPQVTPDDS NPWWAAFSRV CKDMNLTLEP EIMPAATDNR YIRAVGVPAL GFSPMNRTPV LLHDHDERLH EAVFLRGVDI YTRLLPALAS VPALPSDS.

