www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

# ACY1 Human

**Description:** 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.

**Catalog #:** ENPS-303

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MTSKGPEEEH PSVTLFRQYL RIRTVQPKPD YGAAVAFFEE TARQLGLGCQ KVEVAPGYVV TVLTWPGTNP TLSSILLNSH TDVVPVFKEH WSHDPFEAFKDSEGYIYARG AQDMKCVSIQ YLEAVRRLKV EGHRFPRTIH MTFVPDEEVG GHQGMELFVQ RPEFHALRAG FALDEGIANP TDAFTVFYSE RSPWWVRVTS TGRPGHASRF MED

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**
The ACY1 solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT &amp; 10% glycerol.

**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.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**
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.

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