

**Acy1, 1-408aa, Mouse, His tag, E.coli**

**Cat.NO.: TP01053**

3th Edition

**Synonyms:**Aminoacylase 1; ACY1D; ACYLASE.

**Description:**Acy1 also known as Aminoacylase1. The protein 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. Recombinant mouse Acy1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol

**Molecular Weight:**48.4kDa (433aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSEFMTTKDPESEHPSVTLFRQYLRICTVQPNPDYGGAITFLEERARQLGLSCQ  
KIEVVPGFVITVLTWPGTNPSLPSILLNSHTDVVPVFKEHWHHDPFEAFKDSEGYIYARGSQDMKSVSIQYLEAVRR  
LKSEGHRFPRTIHMTFVPDEEVGGHKGMELFVKRPEFQALRAGFALDEGLANPTDAFTVFYSPSPWWVRVTSTG  
KPGHASRFIEDTAAEKLHKVISSILAFREKERQRLQANPHLKEGAVTSVNLTKEGGVAYNVVPATMSASFDFRVAP  
DVDMKAFAFEKQLQRWCQEAGEGVTFEFAQKFTEPRMTPTDDSDPWWAAFSGACKAMNLTLEPEIFPAATDSRYIR  
AVGIPALGFSPMNRTPVLLHDHNERLHEDIFLRGVDIYTGLLSALASVPTLPGES

**Purity:**> 95% by HPLC

**Concentration:**0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.