

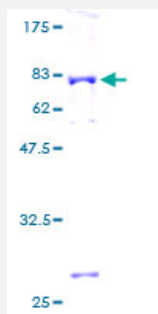
Full-Length

ACY1 (Human) Recombinant Protein (P01)

Catalog # H00000095-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACY1 full-length ORF (AAH00545, 1 a.a. - 408 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTSKGPAAEHPSVTLFRQYLRIRTVQPKPDYGAAVAFFETARQLGLGCQKVEVAPGYVTVLT
WPGTNPTLSSILLNSHTDVVPVFKEHWSHDPFEAFKIDSEGYIARGAQDVKCVSIQYLEAVRRLK
VEGHRFPRTIHMTFVPDEEVGGHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSERSP
WWWVRTSTGRPGHASRFMEDTAAEKLHKVVNSILAFREKEWQRLQSNPHLKEGSVTSVNLTKLE
GGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEGVTFLEFAQKWMHPQVTPDD
SNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPAALGFSPMNRTPVLLHDHDERLHEAV
FLRGVDIYTRLLPALASVPALPSDS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

70.62

Interspecies Antigen Sequence

Mouse (85); Rat (87)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACY1

Entrez GeneID	95
GeneBank Accession#	BC000545
Protein Accession#	AAH00545
Gene Name	ACY1
Gene Alias	ACY1D, ACYLASE
Gene Description	aminoacylase 1
Omim ID	104620 609924
Gene Ontology	Hyperlink
Gene Summary	<p>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 3p 21.1, 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. [provided by RefSeq]</p>
Other Designations	-

Pathway

- [Arginine and proline metabolism](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Metabolic pathways](#)