

Human Aminoacylase-1 (ACY1) ELISA Kit | ACY1 elisa kit

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CATALOG #
AAA331096

REACTIVITY
Human

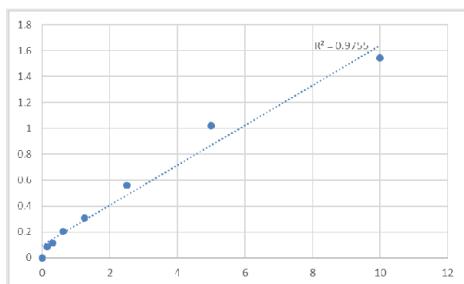
PRODUCT SYNONYMS

Aminoacylase-1 (ACY1); Human Aminoacylase-1 (ACY1) ELISA Kit; ACY1; ACY1D; ACYLASE; ACY1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Aminoacylase-1 (ACY1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACY1. No significant cross-reactivity or interference between Human ACY1 and analogues was observed.
Sequence Length	408
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Aminoacylase-1 (ACY1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACY1 elisa kit	Description: This Human Aminoacylase-1 (ACY1) ELISA Kit employs a two-site sandwich ELISA to quantitate ACY1 in samples. An antibody specific for ACY1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACY1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACY1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACY1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501901
NCBI GeneID	95
NCBI Accession #	NP_000657.1
NCBI GenBank Nucleotide #	NP_000657.1
UniProt Accession #	Q03154
NCBI Official Full Name	aminoacylase-1 isoform a
NCBI Official Synonym Full Names	aminoacylase 1
NCBI Official Symbol	ACY1
NCBI Official Synonym Symbols	ACY-1; ACY1D; HEL-S-5
NCBI Protein Information	aminoacylase-1
UniProt Protein Name	Aminoacylase-1
UniProt Gene Name	ACY1
UniProt Synonym Gene Names	ACY-1
UniProt Entry Name	ACY1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.