ARG83225
Human ACY1 / Aminoacylase 1 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83225 Human ACY1 / Aminoacylase 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ACY1 / Aminoacylase 1 in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ACY1 / Aminoacylase 1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	25 pg/ml
Detection Range	312 pg/ml - 20,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 5.0% Inter-Assay CV: 4.6%
Alternate Names	ACY-1; N-acyl-L-amino-acid amidohydrolase; ACY1D; EC 3.5.1.14; HEL-S-5; Aminoacylase-1

Application Instructions

Assay Time	~ 5 hours

Properties

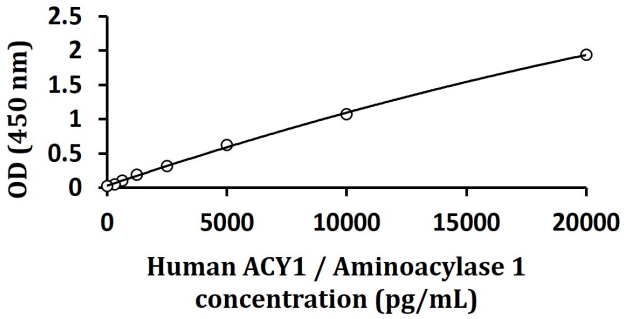
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ACY1
Gene Full Name	aminoacylase 1
Background	This gene encodes a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and an acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. This gene is located on 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 this enzyme is the first member of a new family of zinc-binding enzymes. Mutations in this gene cause aminoacylase-1 deficiency, a

	metabolic disorder characterized by central nervous system defects and increased urinary excretion of N-acetylated amino acids. Alternative splicing of this gene results in multiple transcript variants. Read-through transcription also exists between this gene and the upstream ABHD14A (abhydrolase domain containing 14A) gene, as represented in GeneID:100526760. A related pseudogene has been identified on chromosome 18. [provided by RefSeq, Nov 2010]
Function	Involved in the hydrolysis of N-acylated or N-acetylated amino acids (except L-aspartate). [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG83225 Human ACY1 / Aminoacylase 1 ELISA Kit standard curve image

ARG83225 Human ACY1 / Aminoacylase 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.