

Catalog No.: RP03197 **Recombinant**

Species	Gene ID	Swiss Prot
Human	95	O03154

C-His

ACY1 Aminoacylase-1; ACY-1; 3.5.1.14;
N-acyl-L-amino-acid amidohydrolase

Source	Purification
Baculovirus-Insect Cells	≥ 95 % as determined by SDS-PAGE

47.3 kDa 44 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from sterile 50mM Tris,
100mM NaCl, pH 8.0, 10% glycerol

Aminoacylase 1 (ACY1), a metalloenzyme that removes amide-linked ACY1 groups from amino acids and may play a role in regulating responses to oxidative stress. Both the C-terminal fragment found in the two-hybrid screen and full-length ACY1 co-immunoprecipitate with SphK1. Though both C-terminal and full-length proteins slightly reduce SphK1 activity measured in vitro, the C-terminal fragment inhibits while full-length ACY1 potentiates the effects of SphK1 on proliferation and apoptosis. It suggested that ACY1 physically interacts with SphK1 and may influence its physiological functions. As a homodimeric zinc-binding enzyme, Aminoacylase 1 catalyzes the hydrolysis of N alpha-acylated amino acids. Deficiency of Aminoacylase 1 due to mutations in the Aminoacylase 1 (ACY1) gene follows an autosomal-recessive trait of inheritance and is characterized by accumulation of N-acetyl amino acids in the urine.

Recombinant Human Aminoacylase 1/ACY 1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Ser408) of Human Aminoacylase 1/ACY 1 (Accession #NP_000657.1) fused with a His tag at the C-terminus.

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Human Aminoacylase 1/ACY 1
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.