

Datasheet for ABIN7317832

**Aminoacylase 1 Protein (ACY1) (His tag)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Aminoacylase 1 (ACY1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aminoacylase 1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human ACY1/Aminoacylase-1 Protein (His Tag)
Sequence:	Met 1-Ser 408
Characteristics:	A DNA sequence encoding the full length of human ACY1 (NP_000657.1) (Met 1-Ser 408) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	Aminoacylase 1 (ACY1)
Alternative Name:	ACY1/Aminoacylase-1 ( <a href="#">ACY1 Products</a> )
Background:	Background: 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-

## Target Details

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.

Synonym: ACY-1,ACY1D,HEL-S-5

Molecular Weight: 47.3 kDa

NCBI Accession: [NP\\_000657](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

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

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.