

# Human Aminoacylase-1/ACY1 (His Tag) recombinant protein



Catalog Number: 500353

## General Information

### Gene Name Synonym

N-acyl-L-amino-acid amidohydrolase

### Protein Construction

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.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured by its ability to cleave N-acetyl-L-Methionine (Ac-Met). The specific activity is >4,000 pmoles/min/ $\mu$ g.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

## Molecular Mass

The recombinant human ACY1 consists of 419 amino acids and predicts a molecular mass of 47.3 kDa. It migrates as an approximately 44 kDa protein in SDS-PAGE under reducing conditions.

## Formulation

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

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

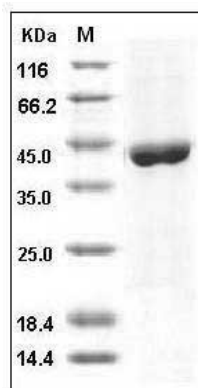
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human ACY1 / Aminoacylase-1 Protein (His Tag)  
SDS-PAGE