Recombinant Human Aminoacylase 1/ACY 1 Protein

Catalog No.: RP03197

Sequence Information

Species
Human

Gene ID
95

Swiss Prot
Q03154

Tags
C-His

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
47.3 kDa

Observed MW
44 kDa

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

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

Reconstitution

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-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.

Basic Information

Description
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.

Activity

Shipping
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.

Storage
Store at -20℃

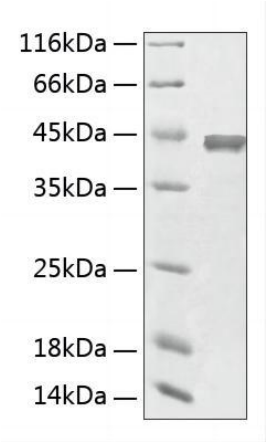
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



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