Datasheet for ABIN7320441

Aminoacylase 1 Protein (ACY1) (His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	Aminoacylase 1 (ACY1)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Aminoacylase 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse ACY1/Aminoacylase-1 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 408
Characteristics:	A DNA sequence encoding the mouse ACY1 (Q99JW2) (Met 1-Ser 408) was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave N-acetyl-L-Methione (Ac-Met). The specific activity is >4,000 pmoles/min/µg.

Target Details

Target:	Aminoacylase 1 (ACY1)

Target Details

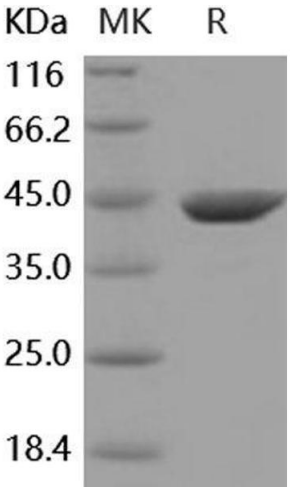
Alternative Name:	ACY1/Aminoacylase-1 (ACY1 Products)
Background:	Background: Aminoacylase 1 (ACY1), a metalloenzyme that removes amide-linked ACY1 groups from amino acids and may play a role in regulating responses to oxidative stress. Both the C-terminal fragment found in the two-hybrid screen and full-length ACY1 co-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: 1110014J22Rik,Acy-1
Molecular Weight:	45 kDa
UniProt:	Q99JW2

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
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.



Western Blotting

Image 1.