

# Recombinant Human Aminoacylase 1/ACY 1 Protein

## RPCB1887



### Product Information

<b>Product SKU:</b>	RPCB1887	<b>Gene ID:</b>	95	<b>Size:</b>	50µg
<b>Tag:</b>	C-His	<b>Reactivity:</b>	Human		

### Additional Information

<b>Expression Host:</b>	Baculovirus-Insect Cells	<b>Swissprot:</b>	Q03154
<b>Purity:</b>	> 95 % as determined by SDS-PAGE		

### Protein Information

**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.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human Aminoacylase 1/ACY 1 Protein , tested reactivity in Baculovirus-Insect Cells and has been validated in SDS-PAGE.100% guaranteed.

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method

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

Contact Details | Dublin, Ireland

Email: [techsupport@assaygenie.com](mailto:techsupport@assaygenie.com) | Web: [www.assaygenie.com](http://www.assaygenie.com)

Copyright © 2024 Assay Genie Ltd, All Rights Reserved. All information / detail is correct at time of going to print.

**Storage:**

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.