

Datasheet for ABIN7273824
CHIA Protein (AA 22-476) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	CHIA
Protein Characteristics:	AA 22-476
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHIA protein is labelled with His tag.

Product Details

Purpose:	Human AMCase/CHIA Protein
Sequence:	Tyr22-Ala476
Characteristics:	Recombinant Human AMCase/CHIA Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Tyr22-Ala476.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	CHIA
Alternative Name:	AMCase (CHIA Products)

Target Details

Background:	Acidic mammalian chitinase (AMCase) and chitotriosidase (CHIT-1) are two active chitinases expressed in humans. The chitinase activity of AMCase was found to be causative in allergic inflammation and its expression was found to be induced by interleukin-13. CHIT1-1 is expressed by phagocytic cells and extremely high levels are seen in lysosomal storage diseases. Despite that AMCase expression in the inflammation is under investigation, little is known regarding its regulation during macrophages' full maturation and polarization.
Molecular Weight:	51.2 kDa. Due to glycosylation, the protein migrates to 55-60 kDa based on Tris-Bis PAGE result.

Application Details

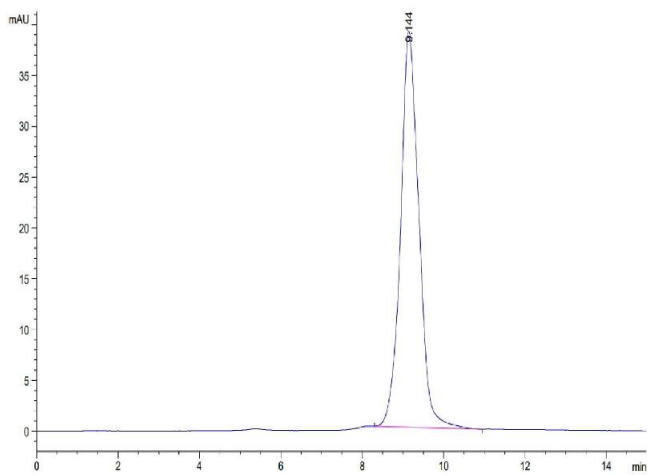
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human AMCase/CHIA is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Human AMCase/CHIA on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

