

# Mouse AMCase/CHIA Protein

Cat. No. AMC-MM101

## Description

<b>Source</b>	Recombinant Mouse AMCase/CHIA Protein is expressed from Expi293 with His tag at the C-terminal. It contains Tyr22-Pro473.
<b>Accession</b>	Q91XA9
<b>Molecular Weight</b>	The protein has a predicted MW of 51 kDa. Due to glycosylation, the protein migrates to 53-60 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

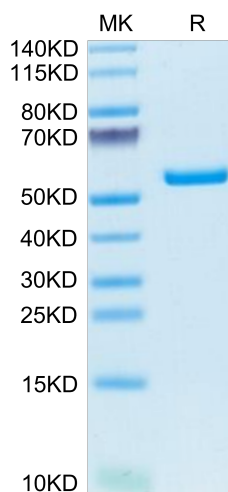
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.

## 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. The expression of AMCase and CHIT-1 were differently modulated in HMMs at different stage of maturation.

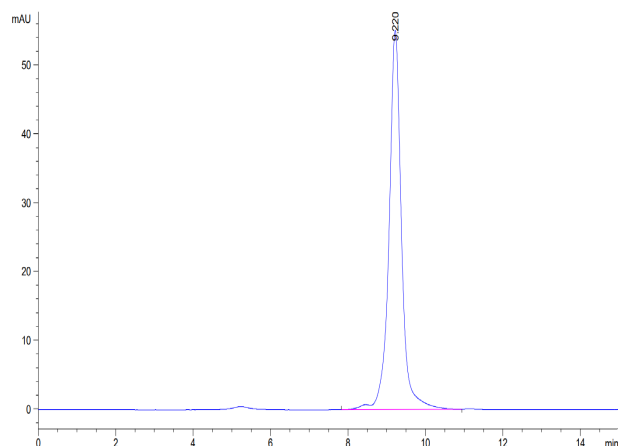
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



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