

Mouse AMCase/CHIA Protein

Cat. No. AMC-MM101

Description

Source	Recombinant Mouse AMCase/CHIA Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Tyr22-Pro473.
Accession	Q91XA9
Molecular Weight	The protein has a predicted MW of 51 kDa. Due to glycosylation, the protein migrates to 53-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

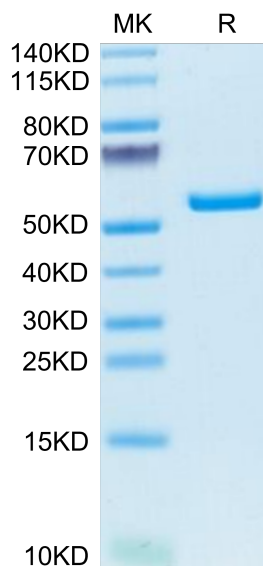
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

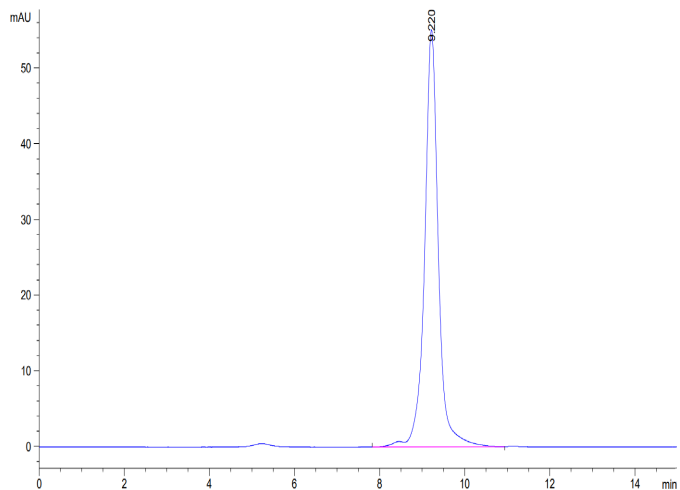
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



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