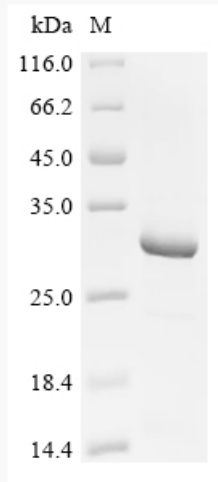


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Certificate of Analysis

Product Name	Recombinant Mouse Mast cell protease 4 (Mcpt4)		
Catalog Number	AAA18631		
Expression host	E.coli		
Tag Info	N-terminal 6xHis-tagged		
Buffer	Lyophilized from a 0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0 The volume before lyophilization is 100μl/vial.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20℃/-80℃. Our default final concentration of glycerol is 50%. Customers could use it as reference.		
Batch Number	DD05253b1g0		
Nature	Mouse Mcpt4-(AA 21-246)- P21812 -Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 °C, one week after reconstitution	
	Long term	-20 to -80 °C, twelve months from the date of receipt	
Form	Lyophilized powder		
Date of detection	2024.11.14		
Test Items	Specifications		Results
Purity	≥90%,by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 29.2 kDa		Observed band size: 29 kDa

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	<p>Lyophilized protein has been sterile filtered prior to lyophilization.</p> <p>However, the lyophilization process could potentially compromise sterility and please follow the instruction below if customers need a sterile filtered protein.</p> <p>Please sterile filter reconstituted lyophilized proteins with a 0.22µm filter in a clean bench (or other sterile environment) after reconstitution.</p> <p>Customers could use it as reference.</p>	
Endotoxin Level	<1.0 EU per 1µg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	

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Datasheet

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Tag Info	N-terminal 6xHis-tagged
Buffer	Lyophilized from a 0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0 The volume before lyophilization is 100µl/vial.
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Has chymotrypsin-like activity. Hydrolyzes the amide bonds of synthetic substrates having Tyr and Phe residues at the P1 position. Preferentially hydrolyzes the 'Tyr-4- -Ile-5' bond of angiotensin I and the 'Phe-20- -Ala-21' bond of amyloid beta-protein, and is less active towards the 'Phe-8- -His-9' bond of angiotensin I and the 'Phe-4- -Ala-5' and 'Tyr-10- -Glu-11' bonds of amyloid beta-protein. Involved in thrombin regulation and fibronectin processing.
AA sequence	IIGGVESRPHSRPYMAHLEITTERGFTATCGGFLITRQFVMTAAHCSGREITVTLG AHDVSKTESTQQKIKVEKQI VHPKYNFYSNLHDIMLLKLQKKAKETPSVNVIPRPSDFIKPGKMCRAAGWGRTGVTEPTSDTLREVKL RIM DKEACKNYWHYDYNLQVCVGS PRKKRSAYKGD SGGPLLCAGVAHGIVSYGRGDAKPPAVFTRISSYVPWIN RVIKGE