Cynomolgus Cathepsin C/DPPI Protein

Cat. No. DPP-CM101

Description

Source	Recombinant Cynomolgus Cathepsin C/DPPI Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Asp25-Leu463.
Accession	Q60HG6
Molecular Weight	The protein has a predicted MW of 51.1 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

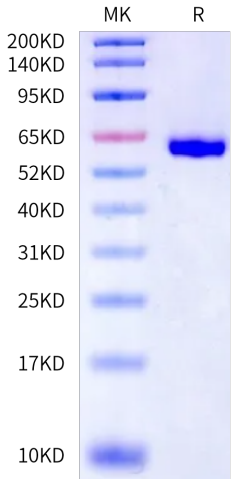
Formulation	Supplied as 0.22 μm filtered solution in 20mM MES, 150mM NaCl, 10% glycerol (pH 6.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Cathepsin C (CTSC) is a lysosomal cysteine protease constitutively expressed at high levels in the lung, kidney, liver, and spleen. It plays a key role in the activation of serine proteases in cytotoxic T cells, natural killer cells (granzymes A and B), mast cells (chymase and tryptase) and neutrophils (cathepsin G, neutrophil elastase, proteinase 3) underscoring its pivotal significance in immune and inflammatory defenses.

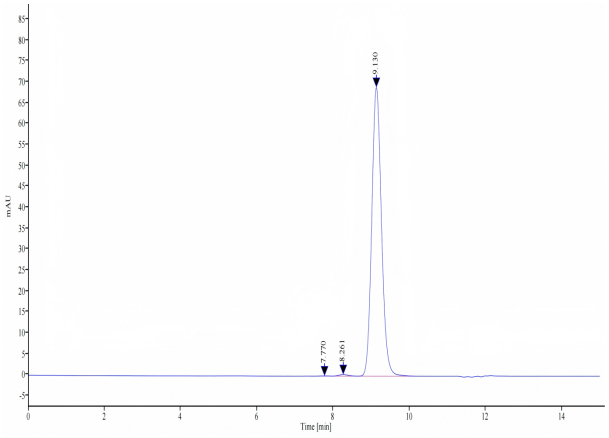
Assay Data

Bis-Tris PAGE



Cynomolgus Cathepsin C on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Cynomolgus Cathepsin C is greater than 95% as determined by SEC-HPLC.

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Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Arg-7-amido-4-methylcoumarin (GR-AMC). The specific activity is >8000 pmol/min/μg.