



## Synonym

CD73,NT5E,5'-Nucleotidase,5'-NT,NT5,NTE

## Source

Mouse CD73, His Tag(CD3-M52H9) is expressed from human 293 cells (HEK293). It contains AA Trp 29 - Ser 551 (Accession # [Q61503-1](#)).

Predicted N-terminus: Trp 29

## Molecular Characterization

CD73(Trp 29 - Ser 551)  
Q61503-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 59.9 kDa. The protein migrates as 66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 120 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

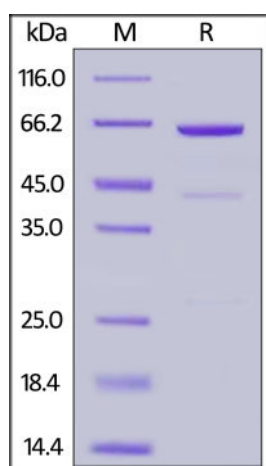
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Mouse CD73, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity

Measured by its ability to hydrolyze the 5' phosphate group from the substrate adenosine 5' monophosphate (AMP). The specific activity is > 20,000 pmol/min/µg (QC tested).

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# Mouse CD73 / NT5E Protein, His Tag (active enzyme)

Catalog # CD3-M52H9



BIOSYSTEMS  
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## Background

5'-nucleotidase (5'-NT), also known as ecto-5'-nucleotidase or CD73 (cluster of differentiation 73), is an enzyme that is encoded by the NT5E gene. CD73 commonly serves to convert AMP to adenosine. Ecto-5-prime-nucleotidase (5-prime-ribonucleotide phosphohydrolase) catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. Other forms of 5-prime nucleotidase exist in the cytoplasm and lysosomes and can be distinguished from ecto-NT5 by their substrate affinities, requirement for divalent magnesium ion, activation by ATP, and inhibition by inorganic phosphate. Rare allelic variants are associated with a syndrome of adult-onset calcification of joints and arteries (CALJA) affecting the iliac, femoral, and tibial arteries reducing circulation in the legs and the joints of the hands and feet causing pain.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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