

## Biotin Human CD73 Protein (C-His-Avi)

<b>Catalog Number:</b>	809803, 809804
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	CD73, NT5E
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Application:</b>	ELISA, BLI
<b>Format:</b>	Liquid, Biotinylated
<b>Expression Host:</b>	CHO
<b>Species:</b>	Human
<b>Sources:</b>	Recombinant Human CD73 Protein (Trp27-Lys547) with C-terminus His-Avi-tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
<b>Accession Number:</b>	P21589
<b>Molecular Weight:</b>	The protein has a predicted molecular weight of 61.3 kDa. Under DTT-reducing conditions, it migrates at approximately 65 kDa on SDS-PAGE.
<b>Affinity Tag:</b>	C-His-Avi
<b>Purity:</b>	>95% based on SDS-PAGE under reducing condition
<b>Formulation:</b>	1xPBS buffer, pH7.4, 0.22 µm filtered
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.
<b>Storage and Handling:</b>	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

### BACKGROUND INFORMATION

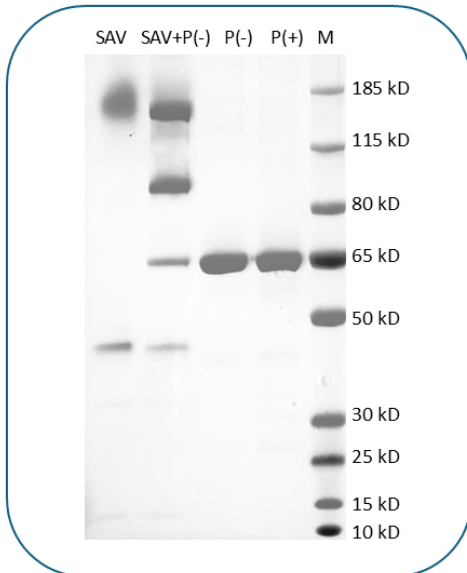
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5'-nucleotidase, also known as NT5E, NTE, or CD73, is a GPI-anchored membrane protein that belongs to the 5'-nucleotidase family. It is expressed on T and B lymphocytes and catalyzes the conversion of purine and pyrimidine nucleotides into their corresponding nucleosides. CD73 functions as a costimulatory molecule in T cell activation and plays a key role in immune responses. CD73 generates adenosine, which acts in cell signaling across various physiological systems, including the intestinal epithelium, ischemic myocardium, and cholinergic synapses. It also helps mediate lymphocyte-stromal interactions and can condition the local microenvironment for lymphocyte function. In the absence of CD73, levels of adhesion molecules like ICAM-1, VCAM-1, and

E-selectin increase on cell surfaces. Additionally, CD73-produced adenosine activates G protein-coupled purinergic receptors, influencing cellular responses. It is also involved in regulating pro-inflammatory molecules in endothelial cells, further contributing to immune and inflammatory processes.

## PRODUCT DATA

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Human CD73 Protein (C-His-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the CD73 protein exceeds 90%.

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