

Human CD73 Protein; His Tag

Product Information

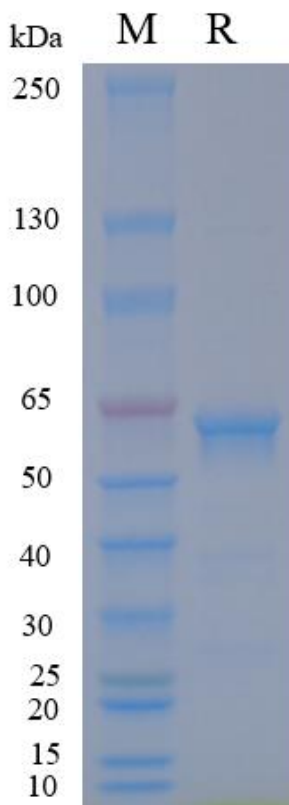
Product Name	Human CD73 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size	GM-88740RP-100 / 100 μg GM-88740RP-1000 / 1 mg
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Protein Information

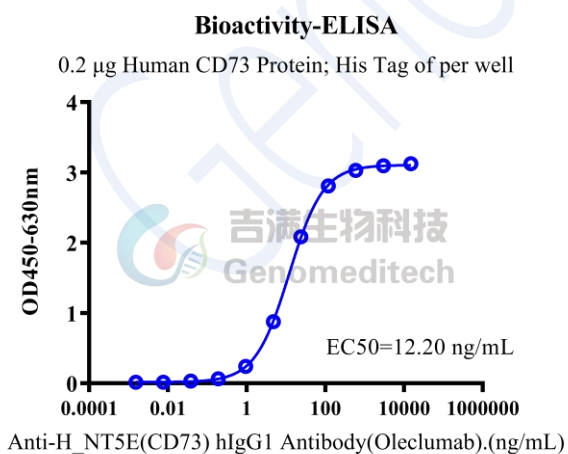
Alternative Names	NT5E, 5'-Nucleotidase, 5'-NT, NT5, NTE
Source	Human CD73 Protein; His Tag (GM-88740RP) is expressed from human 293 cells (HEK-293). It contains AA Trp 27 - Ser 549 (Accession # P21589-1). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	58.8 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	CD73 protein, full name Cluster of Differentiation 73, also known as 5'-nucleotidase (NT5E), is an important cell membrane-bound glycosylphosphatidylinositol (GPI)-anchored protein and a member of the ecto-nucleotidase family. CD73 protein plays a crucial role in regulating extracellular adenosine levels by catalyzing the dephosphorylation of adenosine monophosphate (AMP) to adenosine in normal physiological conditions. Currently, several CD73-targeted therapeutic strategies are under clinical investigation, including monoclonal antibodies (e.g., oleclumab), small-molecule inhibitors, and antibody-drug conjugates (ADCs). These agents can restore anti-tumor immunity and inhibit tumor growth by blocking CD73 enzymatic activity or reducing CD73 expression, thereby decreasing adenosine production and alleviating immunosuppression in the tumor microenvironment. In summary, CD73 protein plays a critical role in tumor immune evasion and adenosine-mediated immunosuppression, and is of great significance for understanding the mechanisms of tumor immunology, developing targeted therapeutic strategies, and evaluating patient prognosis, particularly in combination with immune checkpoint inhibitors.

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human CD73 Protein; His Tag (Catalog # GM-88740RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-H_NT5E(CD73) hIgG1 Antibody(Oleclumab) (Catalog # GM-28674AB) were added.