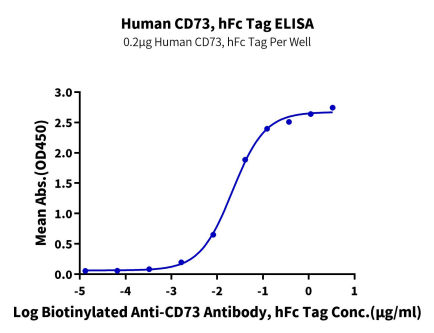
Bioactive CellTx™ HuPro®

NT5E (Human) Recombinant Protein

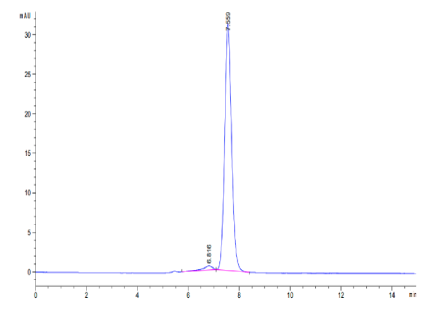
Catalog # P10002 Size 100 ug

Applications



ELISA

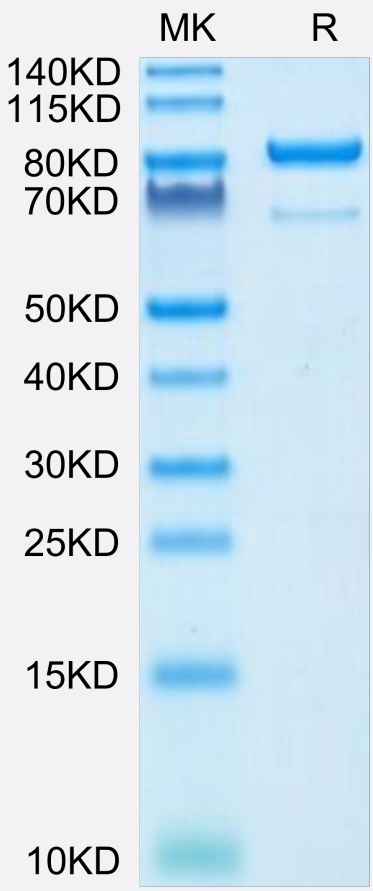
Immobilized Human CD73, hFc Tag at 2ug/ml (100ul/well) on the plate. Dose response curve for Biotinylated Anti-CD73 Antibody, hFc Tag with the EC_{50} of 22.6ng/ml determined by ELISA.



SEC-HPLC

The purity of Human CD73 is greater than 95% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human CD73 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human NT5E (P21589-1, Trp27-Lys547) partial recombinant protein with hFc tag at C-terminus expr essed in HEK293 cells.
Sequence	Trp27-Lys547
Host	Human
Theoretical MW (kDa)	84.5 kDa Due to g
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)

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Quality Control Testing	ELISA, SEC-HPLC and Tris-Bis PAGE ELISA Immobilized Human CD73, hFc Tag at 2ug/ml (100ul/well) on the plate. Dose response curve for Biotinylated Anti-CD73 Antibody, hFc Tag with the EC_{50} of 22.6ng/ml determined by ELISA. SEC-HPLC The purity of Human CD73 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human CD73 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in 20 mM Tris, 120 mM NaCl, pH 7.5 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

Gene Info — NT5E

Entrez GeneID	4907
Protein Accession#	P21589-1
Gene Name	NT5E
Gene Alias	CD73, E5NT, NT, NT5, NTE, eN, eNT
Gene Description	5'-nucleotidase, ecto (CD73)
Omim ID	129190
Gene Ontology	Hyperlink

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Gene Summary	Ecto-5-prime-nucleotidase (5-prime-ribonucleotide phosphohydrolase; EC 3.1.3.5) catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. Consequently, a deficiency of NT5 occurs in a variety of immunodeficiency diseases (e.g., see MIM 102700, MIM 300300). 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.[supplied by OMIM
Other Designations	5' nucleotidase (CD73)|5' nucleotidase, ecto|OTTHUMP00000016808|OTTHUMP00000040565|Purine 5-Prime-Nucleotidase|ecto-5'-nucleotidase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Metabolic pathways
- Nicotinate and nicotinamide metabolism
- Purine metabolism
- Pyrimidine metabolism

Disease

- Ataxia telangiectasia
- Colorectal Neoplasms
- Depressive Disorder
- Fatigue
- Genetic Predisposition to Disease
- Ovarian Neoplasms
- Sleep Disorders
- Sleep Initiation and Maintenance Disorders

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