

Recombinant Human 5'-Nucleotidase/5'-NT/CD73 (P21589, C-6His)

Catalog No. PKSH033860

Note: Centrifuge before opening to ensure complete recovery of vial contents.

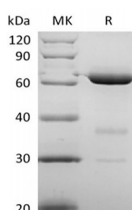
Description

Synonyms	5'-Nucleotidase;5'-NT;Ecto-5'-Nucleotidase;CD73;NT5E;NT5;NTE
Species	Human
Expression Host	HEK293 Cells
Sequence	Trp27-Lys547
Accession	P21589
Calculated Molecular Weight	58.8 kDa
Observed molecular weight	62 kDa
Tag	C-His
Bioactivity	Immobilized Human CD73-His at 2µg/ml (100 µl/well) can bind Anti-Human CD73 mAb. The ED ₅₀ of Anti-Human CD73 mAb is 2.78 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 120mM NaCl, 4mM CaCl ₂ , 20% Glycerol, pH 7.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

CD73 is a glycosyl phosphatidylinositol (GPI) anchored membrane protein that belongs to the 5'-nucleotidase family. CD73 is an ecto 5'Nucleotidase expressed by most cell types. CD73 hydrolyzes extracellular nucleotides into membrane permeable nucleosides. CD73 is one of several enzymes responsible for the production of extracellular adenosine, a signaling molecule that is involved in responses to inflammation and tissue injury. CD73 is a lymphocyte maturation

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marker that has functions independent of its catalytic activity. CD73 is also a regulator of leukocyte extravasation, a function that requires its 5'Nucleotidase activity. Defects in NT5E are the cause of calcification of joints and arteries (CAJA). The recombinant CD73 lacking GPI anchor is secreted as a monomer.