

# Recombinant Human 5'-nucleotidase, ecto (CD73), His-tagged

Cat. No. NT5E-435H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	NT5E, 27-252aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	27-252 a.a.
<b>Description</b>	NT5E is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. This protein is used as a determinant of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries. Two transcript variants encoding different isoforms have been found for this gene. Recombinant human NT5E protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	27.0 kDa (247aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MWELTILHTN DVHSRLEQTS EDSSKCVNAS RCMGGVARLF TKVQQIRRAE PNVLLLDAGD QYQGTIWFTV YKGAEVAHFM NALRYDAMAL GNHEFDNGVE GLIEPLLKEA KFPILSANIK AKGPLASQIS GLYLPYKVLP VGDEVVGIVG YTSKETPFLS NPGTNLVFED EITALQPEVD

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KLKTLNVNKI IALGHSGFEM DKLIAQKVRG VDVVVGHSN TFLYTGN

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [NT5E 5-nucleotidase, ecto \(CD73\) \[ Homo sapiens \]](#)

**Official Symbol** NT5E

**Synonyms** NT5E; 5-nucleotidase, ecto (CD73); 5 nucleotidase (CD73) , NT5; 5-nucleotidase; CD73; eN; eNT; 5-NT; ecto-5-nucleotidase; Purine 5-Prime-Nucleotidase; NT; NT5; NTE; E5NT;

**Gene ID** [4907](#)

**mRNA Refseq** [NM\\_001204813](#)

**Protein Refseq** [NP\\_001191742](#)

**MIM** [129190](#)

**UniProt ID** [P21589](#)

**Chromosome Location** 6q14-q21

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**Pathway**

HIF-1-alpha transcription factor network, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem; Purine catabolism, organism-specific biosystem;

**Function**

5-nucleotidase activity; ferrous iron binding; hydrolase activity, acting on ester bonds; metal ion binding; nucleotide binding;

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