

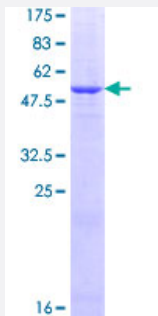
Full-Length

NT5E (Human) Recombinant Protein (P01)

Catalog # H00004907-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NT5E full-length ORF (AAH15940.1, 28 a.a. - 264 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

ELTILHTNDVHSRLEQTSEDSSKCVNASRCMGGVARLFTKVQQIRRAEPNVLLLDAGDQYQGTIW
FTVYKGAEVAHFMMNALRYDAMALGNHEFDNGVEGLIEPLLKEAKFPILSANIKAKGPLASQISGLYL
PYKVLPGDEVVGIVGYTSKETPFLSNPGTNLVFEDEITALQPEVDKLTNLNVNKIALGHSGSEMD
KLIAQKVRGVDVVVGHSNTFLYTGNCFKRIAWARMSR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

51.81

Interspecies Antigen Sequence

Mouse (89); Rat (91)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NT5E

Entrez GeneID [4907](#)

GeneBank Accession# [BC015940](#)

Protein Accession# [AAH15940.1](#)

Gene Name NT5E

Gene Alias CD73, E5NT, NT, NT5, NTE, eN, eNT

Gene Description 5'-nucleotidase, ecto (CD73)

Omim ID [129190](#)

Gene Ontology [Hyperlink](#)

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](#)