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# Recombinant mouse 5'-Nucleotidase/CD73 protein

Catalog Number: ATGP3509

# **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

29-551aa

#### UniProt No.

061503

#### **NCBI Accession No.**

NP 035981.1

# **Alternative Names**

CD73, 5-NT, 5'-nucleotidase, 5'-nucleotidase ecto, Al447961, E5NT, ecto, eN, eNT, NT, NT5, Nt5e, NTE, 2210401F01Rik

## **PRODUCT SPECIFICATION**

# **Molecular Weight**

59.1 kDa (531aa)

## **Concentration**

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# **Biological Activity**

Specific activity is > 8,000pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0pmole of Adenosine 5-monophosphate to phosphate per minute per minute at pH 7.5 at 25C.

# Tag

His-Tag

# **Application**

SDS-PAGE, Enzyme Activity

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



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# **BACKGROUND**

## **Description**

Nt5e, also known as 5-nucleotidase, is the main enzyme responsible for conversion of AMP into the immunosuppressive molecule adenosine. It was demonstrated to play a direct role in tumor progression including regulation of tumor vascularization. It is of general functional importance for the metabolism of nucleotides at the ventricular surface of the retina as well as the ventricles of the brain, a feature that is maintained throughout development. Recombinant mouse Nt5e, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

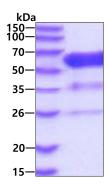
WELTILHTND VHSRLEQTSD DSTKCLNASL CVGGVARLFT KVQQIRKEEP NVLFLDAGDQ YQGTIWFTVY KGLEVAHFMN ILGYDAMALG NHEFDNGVEG LIDPLLRNVK FPILSANIKA RGPLAHQISG LFLPSKVLSV GGEVVGIVGY TSKETPFLSN PGTNLVFEDE ISALQPEVDK LKTLNVNKII ALGHSGFEMD KLIAQKVRGV DIVVGGHSNT FLYTGNPPSK EVPAGKYPFI VTADDGRQVP VVQAYAFGKY LGYLKVEFDD KGNVITSYGN PILLNSSIPE DATIKADINQ WRIKLDNYST QELGRTIVYL DGSTQTCRFR ECNMGNLICD AMINNNLRHP DEMFWNHVSM CIVNGGGIRS PIDEKNNGTI TWENLAAVLP FGGTFDLVQL KGSTLKKAFE HSVHRYGQST GEFLQVGGIH VVYDINRKPW NRVVQLEVLC TKCRVPIYEP LEMDKVYKVT LPSYLANGGD GFQMIKDELL KHDSGDQDIS VVSEYISKMK VVYPAVEGRI KFS<LEHHHHH H>

#### **General References**

Koszalka P., et al. (2016) PLoS One. 11:e0151420. Braun N., et al. (1995) Brain Res Dev Brain Res. 88:79-86.

## **DATA**

#### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

