Recombinant mouse 5′-Nucleotidase/CD73 protein

Catalog Number: ATGP3509

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
29-551aa

UniProt No.
Q61503

NCBI Accession No.
NP_035981.1

Alternative Names
CD73, 5-NT, 5'-nucleotidase, 5'-nucleotidase ecto, AI447961, 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

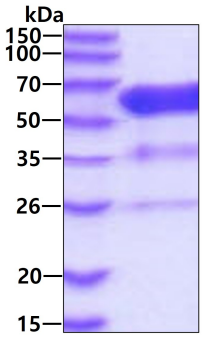
WELTILHTND VHSRLEQTSD DSTKCLNASL CVGGVARLFT KVQQIRKEEP NVLFLDAGDQ YQGTIWFTVY KGLEVAHFMN ILGYDAMALG NHEFDNGVEG LIDPLLRNVK FPILSANIKA RGPLAHQISG LFLPSKVLSV GGEVVGIVGY TSKETPFLSN PGTNLVFEDE ISALQPEVDK LKTLNVNKII ALGHSGFEMD KLIAQKVRGV DIVVGGHSNT FLYTGNPPSK EVPAGKYPFI VTADDGRQVP VVQAYAFGKY LGYLKVEFDD KGNVITSYGN 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.