

CD73/5'-Nucleotidase Protein, Cynomolgus (521a.a, HEK293, His)

Cat. No.:	HY-P7836
Synonyms:	rCynEcto-5'-nucleotidase/CD73, His; 5'-Nucleotidase; 5'-NT; Ecto-5'-Nucleotidase; CD73; NT5E; NT5; NTE
Species:	Cynomolgus
Source:	HEK293
Accession:	G7P3J1 (W27-K547)
Gene ID:	/
Molecular Weight:	58-80 kDa

PROPERTIES

AA Sequence	<pre> WELTILHTND VHSRLEQTSE DSSKCVNASR CMGGVARLFT KVQQIRRAEP NVLLLDAGDQ YQGTIWFTVY KGAEVAHFMN ALRYDAMALG NHEFDNGVEG LIEPLLEKEAK FPILSANIKA KGPLASQISG LYLPYKVLVP GDEVVGI VGY TSKETPFLSN PGTNLVFEDE ITALQPEVDK LKTLNVNKII ALGHSGFETD KLIAQKVRGV DVVVGGHSNT FLYTGNNPPSK EVPAGKY PFI VTSDDGRKVP VVQAYA FGY LGYLKIEFDE RGNVISSHGN PILLNSSIPE DPSIKADINK WRIKLDNYST QELGKTIVYL DGSSQSCRFR ECNMGNLICD AMINNNLRHA DEMFWNHVSM CILNGGGIRS PIDERNNGTI TWENLA AVL P FGGTFDLVQL KGSTLKKAFE HSVHRYGQST GEFLQVGGIH VVYDLSRKPG DRVVKLDVLC TKCRVPSYDP LKMDEIYKVI LPNFLANGGD GFQMIKDELL RHDSGDQDIN VVSTYISKMK VIYPAVEGRI K </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 120 mM NaCl, 4 mM CaCl ₂ , 20% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

CD73/5'-Nucleotidase is a zinc-dependent, 70 kDa homodimeric enzyme bound to the cell membrane through a glycosyl phosphatidylinositol (GPI) anchor
. Vertebrate ecto-5'-nucleotidase (eN, EC 3.1.3.5) hydrolyzes ribo- and deoxyribonucleoside 5'-monophosphates including AMP, CMP, UMP, IMP, and GMP, whereby AMP generally is the most effectively hydrolyzed nucleotide
.CD73 is thought to function as a co-signaling molecule on T lymphocytes and an adhesion molecule that is required for lymphocyte binding to endothelium^{[1],[2]}

REFERENCES

[1]. Herbert Zimmermann, ET AL. Cellular function and molecular structure of ecto-nucleotidases. Purinergic Signal. 2012 Sep;8(3):437-502.

[2]. Dachuan Jin, et al. CD73 on tumor cells impairs antitumor T-cell responses: a novel mechanism of tumor-induced immune suppression. Cancer Res. 2010 Mar 15;70(6):2245-55.

Caution: Product has not been fully validated for medical applications. For research use only.

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