

5'-Nucleotidase, Ecto (NT5E) Active Protein | NT5E active protein

Active 5'-Nucleotidase, Ecto (NT5E)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148190	E Coli	Human	Activity Assay, Cell Culture

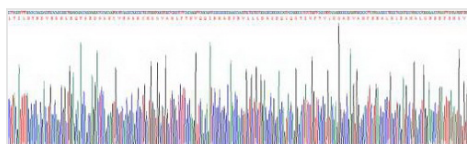
PRODUCT SYNONYMS

5'-Nucleotidase; Ecto (NT5E); Active 5'-Nucleotidase; CD73; NT5-E; E5NT; E5-NT; NTE; EN; ENT; NT5E active protein

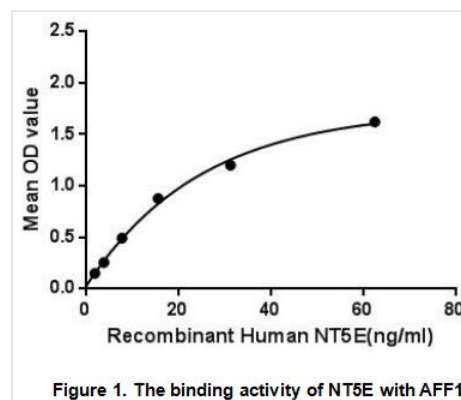
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	524
Applicable Applications for NT5E active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Leu29~Thr500
Isoelectric Point	6.4

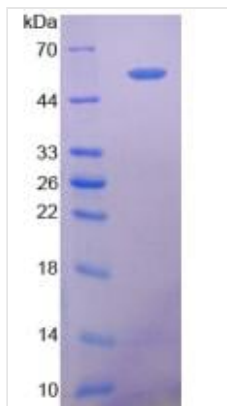
IMAGES



Application Data



Application Data



SDS-PAGE

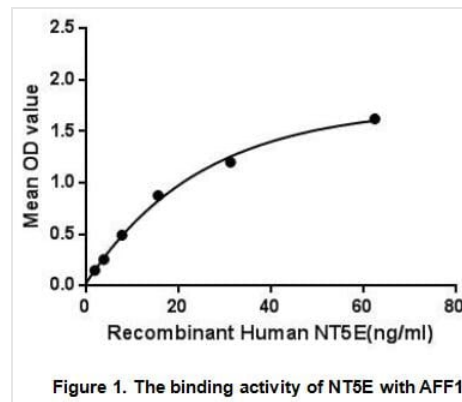


Figure 1. The binding activity of NT5E with AFF1

Activity

5'-Nucleotidase, Ecto (NT5E), also known as ecto-5'-nucleotidase or CD73, is an enzyme catalyzing the hydrolysis of nucleoside-5'-monophosphates to nucleosides and inorganic phosphate. The enzyme is a dimer composed of 2 identical 70kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. NT5E is a marker of lymphocyte differentiation that has functions independent of its catalytic activity, such as T-cell activation and cell-cell adhesion. Other forms of 5-prime nucleotidase exist in the cytoplasm and lysosomes and can be distinguished from NT5E by their substrate affinities, requirement for divalent magnesium ion, activation by ATP, and inhibition by inorganic phosphate. The enzyme is widely distributed in human and animal tissues. Besides, AF4/FMR2 Family, Member 1 (AFF1) has been identified as an interactor of NT5E thus a binding ELISA assay was conducted to detect the interaction of recombinant human NT5E and recombinant human AFF1. Briefly, NT5E were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to AFF1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-NT5E pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of of NT5E and AFF1 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for NT5E active protein	Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	325651886
NCBI GeneID	4907
NCBI Accession #	NP_001191742.1
NCBI GenBank Nucleotide #	NM_001204813.1
UniProt Accession #	P21589; O75520; Q5W116; B3KQI8
Molecular Weight	Predicted Molecular Weight: 53.6kDa Accurate Molecular Weight: 53kDa
NCBI Official Full Name	5'-nucleotidase isoform 2 preproprotein
NCBI Official Synonym Full Names	5'-nucleotidase ecto
NCBI Official Symbol	NT5E
NCBI Official Synonym Symbols	NT; eN; NT5; NTE; eNT; CD73; E5NT; CALJA
NCBI Protein Information	5'-nucleotidase
UniProt Protein Name	5'-nucleotidase
UniProt Gene Name	NT5E

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/5-nucleotidase-ecto-nt5e/148190>