

## Active Recombinant Human NT5E protein, His-tagged

**Cat. No.** NT5E-2681H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Human 5'-Nucleotidase/CD73 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys547) of human 5'-Nucleotidase/CD73 (Accession #NP_002517.1) fused with a 6×His tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Met1-Lys547                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bio-activity</b>     | <p>1.Measured by its binding ability in a functional ELISA. Immobilized Human 5-Nucleotidase/CD73 at 2 µg/mL (100 µL/well) can bind 5-Nucleotidase/CD73 Rabbit pAb with a linear range of 0.16-2.93 ng/mL.</p> <p>2.Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-monophosphate (AMP). The orthophosphate product is measured by a Malachite Green Phosphate Detection Kit. The specific activity is &gt;33654 pmol/min/µg.</p> <p>3.Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-monophosphate (AMP). The specific activity is &gt;25,000 pmol/min/µg.</p> |
| <b>Molecular Mass</b>   | 60-70 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                       |                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein by LAL method.                                                                                                                                   |
| <b>Purity</b>         | > 95% by SDS-PAGE.                                                                                                                                                          |
| <b>Storage</b>        | Store the lyophilized protein at -20°C to -80 °C for long term.<br>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. |
| <b>Reconstitution</b> | Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.                                                                                                |

## GENE INFORMATION

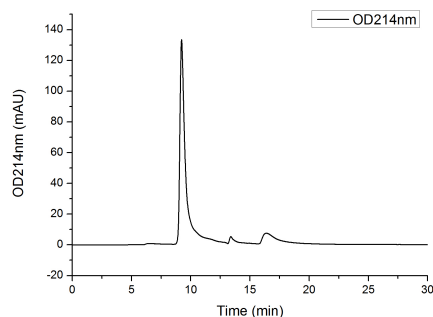
|                        |                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NT5E 5-nucleotidase, ecto (CD73) [ Homo sapiens ]                                                                                                                          |
| <b>Official Symbol</b> | NT5E                                                                                                                                                                       |
| <b>Synonyms</b>        | NT5E; 5-nucleotidase, ecto (CD73); 5 nucleotidase (CD73) , NT5; 5-nucleotidase; CD73; eN; eNT; 5-NT; ecto-5-nucleotidase; Purine 5-Prime-Nucleotidase; NT; NT5; NTE; E5NT; |
| <b>Gene ID</b>         | 4907                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_001204813                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_001191742                                                                                                                                                               |
| <b>MIM</b>             | 129190                                                                                                                                                                     |
| <b>UniProt ID</b>      | P21589                                                                                                                                                                     |

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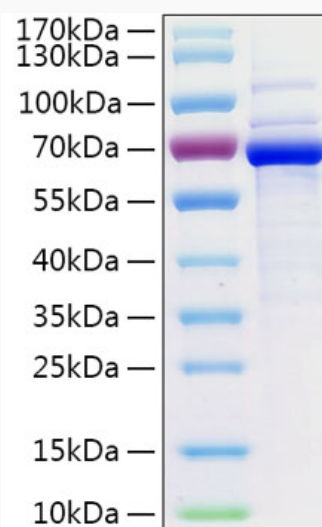
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## Bio-activity



## SDS-PAGE



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