

## Active Recombinant Rat Nt5e protein, His-tagged

**Cat. No.** Nt5e-2210M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Nt5e protein(Q66HL0)(Met1-Lys549), fused with His tag, was expressed in HEK293.                                                                                                                                                                                                                                                |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Met1-Lys549                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 120 mM NaCl, 4 mM CaCl <sub>2</sub> , 20 % glycerol, pH 7.5. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA. |
| <b>Bio-activity</b>     | 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 >15,000 pmol/min/g.                                                                                             |
| <b>Molecular Mass</b>   | The recombinant rat NT5E comprises 532 amino acids and predicts a molecular mass of 59.4 kDa. The apparent molecular mass of the recombinant protein is approximately 59 kDa in SDS-PAGE under reducing conditions due to glycosylation.                                                                                                       |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |                                                                                                                                                                                                                                                   |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C<br>Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## GENE INFORMATION

|                  |                                                        |
|------------------|--------------------------------------------------------|
| <b>Gene Name</b> | Nt5e 5 nucleotidase, ecto [ <i>Rattus norvegicus</i> ] |
|------------------|--------------------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Official Symbol</b> | Nt5e |
|------------------------|------|

|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | NT5E; 5 nucleotidase, ecto; 5-nucleotidase; 5-NT; ecto-5-nucleotidase; Nt5; CD73; MGC112615; |
|-----------------|----------------------------------------------------------------------------------------------|

|                |       |
|----------------|-------|
| <b>Gene ID</b> | 58813 |
|----------------|-------|

|                    |           |
|--------------------|-----------|
| <b>mRNA Refseq</b> | NM_021576 |
|--------------------|-----------|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_067587 |
|-----------------------|-----------|

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA