



# Recombinant Protein Technical Manual

## Recombinant Rat CD73/NT5E Protein (His Tag)

RPES4366

### Product Data:

**Product SKU:** RPES4366

**Size:** 10µg

**Species:** Rat

**Expression host:** Human Cells

**Uniprot:** P21588

### Protein Information:

**Molecular Mass:** 59 kDa

**AP Molecular Mass:** 70-90 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 120mM NaCl, 4mM CaCl<sub>2</sub>, 20% Glycerol, pH 7.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** CD73; E5NT;Nucleotidase; NT5E;ecto-5'-nucleotidase;5'-Nucleotidase

## Immunogen Information:

**Sequence:** Trp29-Lys549

## Background:

CD73, also known as Ecto-5'-nucleotidase, is an ectoenzyme that is attached to the cell membrane by a glycosyl phosphatidylinositol anchor. The enzyme is expressed by most cell types. The 5' -Nucleotidase activity of CD73 converts extracellular nucleoside-5' -monophosphates to nucleosides. CD73 is one of several enzymes responsible for the production of extracellular adenosine, a signaling molecule that is involved in responses to inflammation and tissue injury. CD73 hydrolyzes extracellular nucleotides into membrane permeable nucleosides.