



# Recombinant Protein Technical Manual

## Recombinant Human Ribonuclease 3/RNASE3 Protein (His Tag) RPES3913

### Product Data:

**Product SKU:** RPES3913

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P12724

### Protein Information:

**Molecular Mass:** 16.6 kDa

**AP Molecular Mass:** 25 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % 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/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM DTT, 10% Glycerol, pH 7.5.

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

**Application:**

**Synonyms:** Eosinophil Cationic Protein; ECP; Ribonuclease 3; RNase 3; RNASE3; ECP; RNS3

## Immunogen Information:

**Sequence:** Arg28-Ile160

## Background:

Ribonuclease 3 (RNASE3) is a basic protein that is localized to the eosinophil primary matrix and belongs to the pancreatic ribonuclease family. RNASE3 is released during degranulation of eosinophils. RNASE3 possesses a wide variety of biological activities. RNASE3 interacts with bacterial lipopolysaccharide (LPS) and lipoteichoic acid (LTA). RNASE3 exhibits antibacterial activity, including cytoplasmic membrane depolarization of preferentially Gram-negative, but also Gram-positive strains. It promotes E. coli outer membrane detachment, alteration of the overall cell shape and partial loss of cell content.