



Recombinant Protein Technical Manual  
Recombinant Human Tryptase  $\beta$ -2/TPSB2 Protein  
(His Tag)  
RPES1487

#### Product Data:

**Product SKU:** RPES1487

**Size:** 10 $\mu$ g

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P20231

#### Protein Information:

**Molecular Mass:** 29.6 kDa

**AP Molecular Mass:** 30 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per  $\mu$ g 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  $\mu$ m filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.

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

**Application:**

**Synonyms:** Tryptase Beta-2; Tryptase-2; Tryptase II; TPSB2; TPS2

## Immunogen Information:

**Sequence:** Ala19-Pro275

## Background:

Tryptases are Trypsin-like Serine Proteases.  $\beta$ -Tryptases are the main isoenzymes in mast cells.  $\beta$ -Tryptases form active tetramers with heparin proteoglycan. In the tetramer, the unique arrangement of the active sites facing a narrow central pore,  $\beta$ -Tryptases are resistant to macromolecule protease inhibitors. When mast cells are activated,  $\beta$ -Tryptases are released and participate in provoking inflammatory conditions.  $\beta$ -Tryptases have been implicated as mediators in the pathogenesis of asthma and other allergic disorders.