



## Recombinant Protein Technical Manual

**Recombinant Human Hyaluronidase/HYAL1 Protein  
(His Tag)**  
RPES0861

### Product Data:

**Product SKU:** RPES0861

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q12794

### Protein Information:

**Molecular Mass:** 47.2 kDa

**AP Molecular Mass:** 52 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, 10%Glycerol, pH7.5.

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

**Application:**

**Synonyms:** Hyaluronidase; Hyal; Hyaluronoglucosaminidase; Lung Carcinoma Protein 1; LuCa; HYAL1; LUCA1

## Immunogen Information:

**Sequence:** Phe22-Trp435

## Background:

Hyaluronidase (HYAL1) is a secreted lysosomal hyaluronidase that belongs to the glycosyl hydrolase 56 family. HYAL1 contains one EGF-like domain and is highly expressed in the liver, kidney, and heart, but it is weakly expressed in the lung, placenta, and skeletal muscle. HYAL1 is thought to be involved in cell proliferation, migration, and differentiation. It may play a role in promoting tumor progression and blocking the TGFB1-enhanced cell growth. Mutations in HYAL1 are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency.