



Recombinant Protein Technical Manual  
Recombinant Human Collectin1/COLEC11 Protein  
(His Tag)  
RPES0824

Product Data:

**Product SKU:** RPES0824

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9BWP8

Protein Information:

**Molecular Mass:** 27.1 kDa

**AP Molecular Mass:** 30 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:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

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

**Application:**

**Synonyms:** Collectin1; Collectin Kidney Protein 1; CL-K1; COLEC11

## Immunogen Information:

**Sequence:** Gln26-Met271

## Background:

Collectin1 is a secreted protein that belongs to the COLEC10/COLEC11 family. Collectin1 contains one C-type lectin domain and one collagen-like domain. Collectins play important roles in the innate immune system by binding to carbohydrate antigens on microorganisms, facilitating their recognition and removal. Collectin1 binds to various sugars including fucose and mannose, but does not bind to glucose, N-acetylglucosamine and N-acetylgalactosamine. It has a higher affinity for fucose compared to mannose. Collectin1 binds lipopolysaccharides (LPS). It also involved in fundamental development serving as a guidance cue for neural crest cell migration. Defects in Collectin1 are the cause of 3MC syndrome type 2 (3MC2).