



# Recombinant Protein Technical Manual

## Recombinant Human CLEC4E/Mincel Protein (His Tag)

RPES0681

### Product Data:

**Product SKU:** RPES0681

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9ULY5

### Protein Information:

**Molecular Mass:** 21.7 kDa

**AP Molecular Mass:** 26 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, pH 7.4.

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

**Application:**

**Synonyms:** C-Type Lectin Domain Family 4 Member E; C-Type Lectin Superfamily Member 9; Macrophage-Inducible C-Type Lectin; CLEC4E; CLECSF9; MINCLE

## Immunogen Information:

**Sequence:** Arg41-Leu219

## Background:

C-Type Lectin Domain Family 4 Member E (CLEC4E) is a 219 amino acid single-pass type II membrane protein that contains one C-type Lectin domain. It is expressed in monocytes, CLEC4E functions as a downstream target of C/EBP  $\beta$  and is thought to play a role in the inflammatory response, possibly via transcriptional control of C/EBP  $\beta$ . CLEC4E may play a role in the response to inflammatory stimuli in peritoneal macrophages and may be involved in immune surveillance processes under transcriptional control of CEBPB. Human CLEC4E shares 67% sequence identity with its mouse counterpart, suggesting a similar function between species. CLEC-4E exists as multiple alternatively spliced isoforms that are encoded by a gene which maps to a natural killer gene complex region on human chromosome 12.