



Recombinant Protein Technical Manual

Recombinant Human CLEC10A/CD301 Protein (Fc Tag)

RPES0675

Product Data:

Product SKU: RPES0675

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: Q8IUN9-2

Protein Information:

Molecular Mass: 54.6 kDa

AP Molecular Mass: 58 kDa

Tag: N-Fc

Bio-activity:

Purity: > 85 % 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 sterile PBS, pH 7.4

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

Application:

Synonyms: C-Type Lectin Domain Family 10 Member A; C-Type Lectin Superfamily Member 14; Macrophage Lectin 2; CD301; CLEC10A; CLECSF13; CLECSF14; HML

Immunogen Information:

Sequence: Gln61-His292

Background:

CLEC10A, also known as the macrophage galactose-type calcium-type lectins (MGLs; CD301) constitute a unique class of C-type lectins because of their specificity for galactose and its structural homologues. MGLs/CD301 is a type II transmembrane glycoproteins and is expressed on macrophages and related cells of myeloid origins, particularly immature dendritic cells (DCs). There are 2 homologues: MGL1 and MGL2 (CD301a and CD301b) in mice. MGL1/CD301a induces both the production and secretion of interleukin (IL)0. MGL1/CD301a plays a protective role against colitis by effectively inducing IL0 production by colonic lamina propria macrophages in response to invading commensal bacteria.