



Recombinant Protein Technical Manual
Recombinant Human CHI3L1/YKL40 Protein (His Tag)
RPES3493

Product Data:

Product SKU: RPES3493

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P36222

Protein Information:

Molecular Mass: 41.5 kDa

AP Molecular Mass: 46 kDa

Tag: C-His

Bio-activity:

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

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, 2mM EDTA, pH 7.4.

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

Application:

Synonyms: Chitinase-3-Like protein 1; 39 kDa Synovial Protein; Cartilage Glycoprotein 39; CGP-39; GP-39; hCGP-39; YKL-40; CHI3L1;ASRT7;DKFZp686N19119;FLJ38139;GP39;HC-gp39;HCGP-3P;YKL40;YYL-40

Immunogen Information:

Sequence: Tyr22-Thr383

Background:

Chitinase-3-Like Protein 1 (CHI3L1) belongs to the glycosyl hydrolase 18 family. CHI3L1 is expressed in activated macrophages, articular chondrocytes, synovial cells as well as in liver. It lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. CHI3L1 is thought to play a role in defense against pathogens, or in tissue remodeling, and in the capacity of cells to respond to and cope with changes in their environment. In addition, CHI3L1 is associated with susceptibility to asthma-related traits type 7 (ASRT7) which assessed by methacholine challenge test, serum IgE levels, atopy, and atopic dermatitis.