Human Chitinase 3-like 1 / CHI3L1 Protein, His Tag

Catalog # CH1-H5228

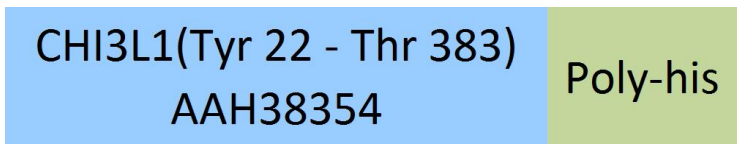
Synonym

CHI3L1,YKL-40,CGP-39,GP-39,ASRT7

Source

Human CHI3L1, His Tag(CH1-H5228) is expressed from human 293 cells (HEK293). It contains AA Tyr 22 - Thr 383 (Accession # AAH38354).
Predicted N-terminus: Tyr 22

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 41.2 kDa. The protein migrates as 40-45 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

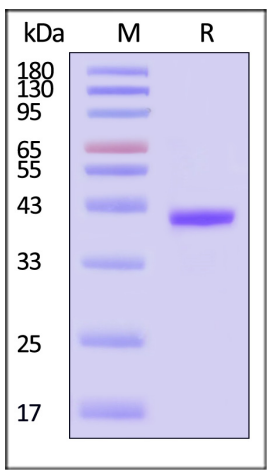
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CHI3L1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

Background

Chitinase-3-like protein 1 (CHI3L1) is also known as Cartilage glycoprotein 39 (CGP-39), YKL-40, which belongs to the glycosyl hydrolase 18 family. CHI3L1 is present in activated macrophages, articular chondrocytes, synovial cells as well as in liver. CHI3L1 may play a role in defense against pathogens, or in tissue remodeling and also may play an important role in the capacity of cells to respond to and cope with changes in their environment.