

## 32-7406: Recombinant Human Chitinase-3-Like Protein 1/CHI3L1 (C-6His)

**Gene :** CHI3L1

**Gene ID :** 1116

**Uniprot ID :** P36222

### Description

Source: Human Cells.

MW :51.53kD.

Recombinant Human Chitinase-3-Like Protein 1 is produced by our Mammalian expression system and the target gene encoding Tyr22-Thr383 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Storage condition :** 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.

**Amino Acid :** YKLVCYYTWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVTLYGMLNTLKNRNPNLKTLLS  
VGGWNFGSQRFKSIASNTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDKQHFTTLIKEMKAEFIKEAQP GK  
KQLLLSAALSAGKVTIDSSYDIKISQHLDFISIMTYDFHGAWRGTTGHHSPFRGQEDASPD RFSNTDYAVGY  
MLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEICDFLRGATVHRILGQQVPYA  
TKGNQWVGYYDDQESVSKVQYLKDRQLAGAMVWALDLDLDFQGSFCGQDLRFLPLTNAIKDALAATVDHHHH  
HH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.