

CHI3L1, 1-383aa Human, His tag, CHO

Cat.NO.: TP01603

3th Edition

Synonyms:Chitinase 3-like 1, GP39, ASRT7, YKL40, YYL-40, HC-gp39, HCGP-3P

Description:Chitinases catalyze the hydrolysis of chitin, which is an abundant glycopolymer found in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases includes eight human family members. CHI3L1 is a glycoprotein member of the glycosyl hydrolase 18 family. The protein lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. This protein is thought to play a role in the process of inflammation and tissue remodeling. Recombinant human CHI3L1 protein was expressed with C-terminal myc-His-tag in CHO(chinese hamster ovary) cells using mammalian expression system and purified by using conventional chromatography techniques.

Form:Liquid. in Phosphate-Buffered Saline (pH 7.4)

Molecular Weight:45.5 kDa(408aa)

Sequences:

MGVKASQTGFVVLVLLQCCSAYKLVCCYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVTL
YGMLNLTKNRNPNLKTLSSVGGWNFGSQRFSKIASNTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDQKHFTT
LIKEMKAEFIKEAQP GKKQLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHSPLFRGQEDAS
PDRFSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEICDFLRGAT
VHRILGQQVPYATKGNQWVG YDDQESVSKSVQY LKDRQLAGAMVWALDLDLDFQGSFCGQDLRFPLTNAIKDALA
ATKLGPEQKLISEEDLNSAVDHHHHHHH

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.