
Product Data Sheet

Product Name: CHI3L1 (22-383) Human
 Cat. No.: GP21481
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Chitinase 3 Like 1; Chitinase 3-Like 1 (CartilageGlycoprotein-39); Cartilage Glycoprotein 39; 39 KDa Synovial Protein; HCGP-39;CGP-39; YKL-40; GP-39 ; Chitinase-3-Like Protein 1; Cartilage Glycoprotein-39;HC-Gp39; HCGP-3P; YYL-40; ASRT7; YKL40.		
Amino Acid Sequence	YKLVCYYTSW SQYREGDGSC FPDALDRFLC THIIYSFANI SNDHIDTWEWNDVTLYGMLN TLKNRNP NLK TLLSVGGWNF GSQRFSKIAS NTQSRRTFIK SVPPFLRTHG FDGLDLAWLYPGRGDKQHFT TLIKEMKAEF IKEAQPGKKQ LLSAALSAG KVTIDSSYDI AKISQHLDI SIMTYDFHGAWRGTTGHHSP LFRGQEDASP DRFSNTDYAV GYMLRLGAPA SKLVMGIPTF GRSFTLASSE TGVGAPISGPGIPGRFTKEA GTLAYYEICD FLRGATVHRI LGQQVPYATK GNQWVGYYDDQ ESVKSKVQYL KDRQLAGAMVWALDLDDFQG SFCGQDLRFP LTNAIKDALA ATLEHHHHHHH.		
Formulation	CHI3L1 protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH 7.4), 10% glycerol and 1mM DTT.		

Introduction

Chitinase 3-Like 1 (CHI3L1) catalyze the hydrolysis of chitin that is an abundant glycopolymer present in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases comprises 8 human family members. CHI3L1 belongs to the glycosyl hydrolase 18 family. CHI3L1 lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. CHI3L1 takes part in the process of inflammation and tissue remodeling.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CHI3L1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 370 amino acids (22-383 a.a.) and having a molecular mass of 41.4kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). CHI3L1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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