
Product Data Sheet

Product Name: CHI3L2 Human
 Cat. No.: GP21482
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Chitinase 3-Like 2; Chondrocyte Protein 39; YKL-39; YKL39; Chitinase-3-Like Protein 2; CHIL2; CHI3L2.		
Amino Acid Sequence	MKHHHHHHASYKLVCFYFTNW SQDRQEPGKF TPENIDPFLC SHLIYSFASI ENNKVIKDK SEVMYQITIN SLKTKNPKLK ILLSIGGYLF GSKGFHPMVD SSTSRLFEN SIILFLRNHN FDGLDVSWIY PDQKENTHFT VLIHELAEAF QKDFTKSTKE RLLLTAGVSA GRQMIDNSYQ VEKLAKDLDL INLLSDFDFHG SWEKPLITGH NSPLSKGWQD RGPSSYYNVE YAVGYWIHKG MPSEKVVMMGI PTYGHSFTLA SAETTVGAPA SGPGAAGPIT ESSGFLAYYE ICQFLKGAKI TRLQDQVPY AVKGNQWVG Y DDVKSMETKV QFLKLNLLGG AMIWSIDMDD FTGKSCNQQP YPLVQAVKRS LGSL.		
Solubility	It is recommended to add 0.1M acetate buffer pH 4.0 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited. CHI3L2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	CHI3L2 was filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in 30mM acetate buffer, pH 4.		

Introduction

Chitinase 3-Like 2 (CHI3L2) is similar to bacterial chitinases but lacks chitinase activity. CHI3L2 protein is secreted and is involved in cartilage biogenesis. CHI3L2 is a lectin, which binds chitooligosaccharides and other glycans with high affinity.

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

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Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

CHI3L2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Tyr27-Leu390) containing 374 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 42.1kDa.

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