

Active Recombinant Human CHI3L2, His-tagged

Cat. No. CHI3L2-6543H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHI3L2 (Tyr27-Leu390), fused with a C-terminal 10-His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	27-390 a.a.
Description	The protein encoded by this gene is similar to bacterial chitinases but lacks chitinase activity. The encoded protein is secreted and is involved in cartilage biogenesis. Several transcript variants encoding different isoforms have been found for this gene.
Predicted N Terminal	Tyr27
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of FaDu human squamous cell carcinoma cells. When 5 x 10 ⁴ cells per well are added to rhCHI3L2 coated plates for 30 minutes at 37 °C, cell adhesion is enhanced in a dose dependent manner with typical ED50 range of 0.7 - 2.8 µg/mL. Optimal dilutions should be determined by each laboratory for each application.
Molecular Mass	Predicted Molecular Mass:42.2 kDaSDS-PAGE:40 kDa, reducing conditions

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	CHI3L2?chitinase 3-like 2 [?Homo sapiens?(human)]
Official Symbol	CHI3L2
Synonyms	CHI3L2; CHIL2; YKL39; YKL-39; chitinase 3-like 2; chitinase-3-like protein 2; chondrocyte protein 39
Gene ID	1117
mRNA Refseq	NM_004000
Protein Refseq	NP_003991
MIM	601526
UniProt ID	Q15782

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Chromosome Location	1p13.3
Function	chitin binding; NOT chitinase activity

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