

Active Recombinant Human Hyaluronoglucosaminidase 4, His-tagged

Cat. No. HYAL4-1973H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HYAL4 protein was expressed in Chinese Hamster Ovary cell line. Cys34-Pro462, with an N-terminal CD33 signals sequence and a C-terminal 6-His tag.
Species	Human
Source	CHO
Protein Length	34-462 a.a.
Description	Human hyaluronidases (HYALs) are a group of five endo β -N-acetyl-hexosaminidases that include HYAL1, HYAL2, HYAL3, HYAL4, and SPAM1 (PH20). While HYAL1, HYAL2 and SPAM1 are endo β -N-acetyl-glucosaminidase that are mainly active on hyaluronan with little activity on chondroitin sulfate, HYAL4 is the only known endo β -N-acetyl-galactosaminidase that is mainly active on chondroitin sulfate (type C and D in particular) with no activity on hyaluronan. Hyaluronan and chondroitin sulfate are abundant extracellular matrix components that have numerous biological functions.
Form	Supplied as a 0.2 μ m filtered solution in Tris, NaCl and Glycerol.
N-terminal Sequence	Cys34
Molecular Weight	49 kDa

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Activity	Measured by its ability to hydrolyze S-35 labeled bovine cartilage chondroitin sulfate < 500 ng of rhHYAL4 is required for the 50% hydrolysis of 10 µg chondroitin sulfate, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	66-85 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain at 5 µg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	HYAL4 hyaluronoglucosaminidase 4 [Homo sapiens]
Official Symbol	HYAL4
Synonyms	HYAL4; hyaluronoglucosaminidase 4; CSHY; hyaluronidase-4; hyal-4; hyaluronidase 4; hyaluronoglucosaminidase-4; chondroitin sulfate hydrolase; EC 3.2.1.35
Gene ID	23553
mRNA Refseq	NM_012269
Protein Refseq	NP_036401
MIM	604510

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UniProt ID	Q2M3T9
Chromosome Location	7q31.3
Pathway	Chondroitin sulfate degradation; Dermatan sulfate degradation; Glycosaminoglycan degradation; Metabolic pathways
Function	hyaluronoglucosaminidase activity; hydrolase activity, acting on glycosyl bonds

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