

Active Recombinant Full Length Human HYAL1 Protein, C-6×His tagged

Cat. No. HYAL1-11HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HYAL1 Protein with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
Description	This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene.
Bio-activity	Measured by its ability to hydrolyze S-35 labeled hyaluronan. < 20 ng of rhHYAL1 is required for the 50 % hydrolysis of 10 µg hyaluronan, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 47 kDa SDS-PAGE: 50-60 kDa, reducing conditions
N-terminal Sequence	Phe22

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Analysis	
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 90 %, 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 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris, NaCl and Glycerol.
Shipping	The product is shipped with polar packs.
Full Length	Full L.
GENE INFORMATION	
Gene Name	HYAL1 hyaluronidase 1 [Homo sapiens (human)]
Official Symbol	HYAL1
Synonyms	HYAL1; hyaluronidase 1; MPS9; NAT6; LUCA1; HYAL-1; hyaluronidase-1; hyaluronoglucosaminidase 1; luCa-1; lung carcinoma protein 1; plasma hyaluronidase; tumor suppressor LUCA-1; EC 3.2.1.35
Gene ID	3373
mRNA Refseq	NM_033159

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Protein Refseq	NP_149349
MIM	607071
UniProt ID	Q12794

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