

Active Recombinant Full Length Human HYAL1 Protein, C-6xHis 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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