

## Product datasheet for PH316129

### HYAL1 (NM\_033159) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HYAL1 MS Standard C13 and N15-labeled recombinant protein (NP_149349)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216129
Predicted MW:	48.4 kDa
Protein Sequence:	>RC216129 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)

MAAHLIPICALFLTLLDMAQGFGRGPLLPNRPFTTVWNANTQWCLERHGVDVDVSVFDDVANPGQTFRGPD  
 MTIFYSSQLGTYPYYTPTGEPVFGGLPQNASLIAHLARTFQDILAAIPAPDFSGLAVIDWEAWRPRWAFN  
 WDTKDIYRQSRALVQAQHPDWPAPQVEAVAQDQFQGAARAWMAGTLQLGRALRPRGLWGFYGFDCYNY  
 DFLSPNYTGQCPSGIRAQNDQLGWLWGQSRALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAAGDPN  
 LPVLPYVQIFYDTTNHFLPLDEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFILN  
 VTSGALLCSQALCSGHGRCVRRTSHPKALLLNPAFSIQLTPGGGPLSLRGALSLEDQAQMAVEFKCRC  
 YPGWQAPWCERKSMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_149349</a></u>
RefSeq Size:	2103
RefSeq ORF:	1305
Synonyms:	HYAL-1; LUCA1; MPS9; NAT6


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**Locus ID:** 3373

**UniProt ID:** [Q12794](#), [A0A024R2X3](#)

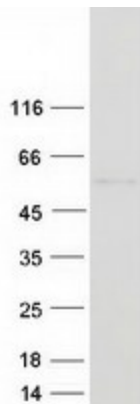
**Cytogenetics:** 3p21.31

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Secreted Protein

**Protein Pathways:** Glycosaminoglycan degradation, Lysosome, Metabolic pathways

### Product images:



Coomassie blue staining of purified HYAL1 protein (Cat# [TP316129]). The protein was produced from HEK293T cells transfected with HYAL1 cDNA clone (Cat# [RC216129]) using MegaTran 2.0 (Cat# [TT210002]).