Recombinant human Hyaluronidase 1/HYAL1 protein

Catalog Number: ATGP3941

PRODUCT INFORMATION

Expression system
HEK293

Domain
22-435aa

UniProt No.
Q12794

NCBI Accession No.
NP_149349

Alternative Names
Hyaluronidase-1, Hyal-1,Hyaluronoglucosaminidase-1, Lung carcinoma protein 1, LuCa-1, HYAL1, Hyaluronidase 1, Hyaluronoglucosaminidase 1, Hyaluronoglucosaminidase1, LUCA 1,MPS9, NAT6, Plasma hyaluronidase, Tumor suppressor LUCA 1

PRODUCT SPECIFICATION

Molecular Weight
46.9kDa (420aa)

Concentration
0.25mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
HYAL1, also known as Hyaluronidase-1, is a member of the endolytic glycoside hydrolase family. Human hyaluronidases (HYALs) are a group of five endo-β-N-acetyl-hexosaminidases that include HYAL1, HYAL2, HYAL3,

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HYAL4, and SPAM1 (PH20). HYAL1 preferentially degrades hyaluronic acid present in the extracellular matrix of somatic tissues. This protein is active at an acidic pH and is the major hyaluronidase in plasma. Defects in HYAL1 are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. It is implicated in several types of cancers, likely due to the angiogenic effects of HYAL1-cleaved hyaluronan fragments. Recombinant human HYAL1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

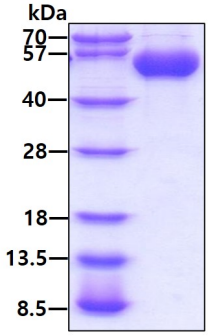
FRGPLLPNRP FTTVWNANTQ WCLERHGVDV DVSVFDVVAN PGQTFRGPDM TIFYSSQLGT YPYYTPTGEP VFGGLPQNAS LIAHLARTFQ DILAAIPAPD FSGLAVIDWE AWRPRWAFNW DTKDIYRQRS RALVQAQHPD WPAPQVEAVA QDQFQGAARA WMAGTLQLGR ALRPRGLWGF YGFPDCYNYD FLSPNYTGQC PSGIRAQNDQ LGWLWGQSRA LYPSIYMPAV LEGTGKSQMY VQHRVAEAFR VAVAAGDPNL PVLPYVQIFY DTTNHFLPLD ELEHSLGESA AQGAAGVVLW VSWENTRTKE SCQAIKEYMD TTLGPFILNV TSGALLCSQA LCSGHGRCVR RTSHPKALLL LNPASFSIQL TPGGGPLSLR GALSLEDQAQ MAVEFKCRCY PGWQAPWCER KSMW<HHHHHH>

General References

Csoka, A.B. et al. (2001) Matrix Biol. 20:499-508.
Jedrzejas, M. J. and Stern, R. (2005) Proteins 61:227-238.
Frost, GI. et al. (1997) Biochem. Biophys. Res. Commun. 236:10-15.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain