

Hyaluronidase (HAase) Active Protein | HAase active protein

Active Hyaluronidase (HAase)

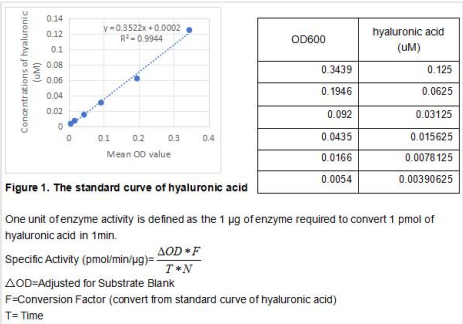
CATALOG # AAA161835	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Hyaluronidase (HAase); Active Hyaluronidase (HAase); Hyaluronidase; HAase active protein (eukaryotic; 293F cell); Human; Hyaluronic Lase; Hyaluronidase4; HAase active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Phe22~Trp4 35
Applicable Applications for HAase active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.9
Research Area	Enzyme & Kinase, Tumor immunity, Hepatology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

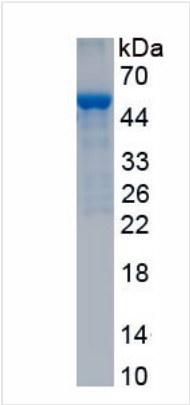


Bioactivity

Hyaluronidase (HAase) is a general term for enzymes that can hydrolyze hyaluronic acid. It is an enzyme that can reduce the activity of hyaluronic acid in the body, thereby improving the fluid permeability in tissues. When used in the human body, it can temporarily reduce the viscosity of the intercellular matrix, promote subcutaneous infusion, locally accumulated exudate or blood to accelerate diffusion and facilitate absorption, and is an important drug dispersant. Clinically used as a drug penetrating agent to promote drug absorption, promote local edema or hematoma dissipation after surgery and trauma. Human HAase consists of 435 amino acids which contains a signal peptide of 1-21 amino acids and it shares 74% and 75% amino acid sequence homology with mouse and rat respectively. The activity assay of recombinant human HAase was measured by its ability to hydrolyze the substrate hyaluronic acid. The rhHAase was diluted to 0.5 ug/ml in 8.46 mM NaH₂PO₄, 11.54 mM Na₂HPO₄, 77 mM NaCl, 0.1 mg/ml BSA, pH 7. 50 ul 0.5 ug/ml rhHAase was added into the microplate and start the reaction by adding 50 uL of 0.3 mg/ml substrate which was diluted in 300mM NaH₂PO₄, pH 5.35. Incubated at 37 degree C for 5min and add 50 ul reaction mixture to 250 ul 1 mg/ml BSA in 24 mM sodium acetic, 79 mM acetic acid, pH 3.75. Incubated at room temperature for 10min and read at a wavelength of 600 nm. The specific activity of recombinant human HAase is >30 pmol/min/ug.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for HAase active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74735617
NCBI GeneID	3373
UniProt Accession #	Q12794; Q6FH23; Q6PIZ6; Q7KYU2; Q7LE34; Q8NFK5; Q8NFK6; Q8NFK7; Q8NFK8; Q8NFK9; Q93013; Q9UKD5
Molecular Weight	37,439 Da
NCBI Official Full Name	Hyaluronidase-1
NCBI Official Synonym Full Names	hyaluronoglucosaminidase 1
NCBI Official Symbol	HYAL1
NCBI Official Synonym Symbols	NAT6; LUCA1; HYAL-1
NCBI Protein Information	hyaluronidase-1; luCa-1; plasma hyaluronidase; tumor suppressor LUCA-1; lung carcinoma protein 1
UniProt Protein Name	Hyaluronidase-1
UniProt Gene Name	HYAL1
UniProt Synonym Gene Names	LUCA1; Hyal-1; LuCa-1
UniProt Entry Name	HYAL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/293f-active-protein/hyaluronidase-haase/161835>