Recombinant Full Length Human HAS1 Protein, GST-tagged

Cat. No. HAS1-3483HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HAS1 full-length ORF (AAH35837.1, 1 a.a. - 577 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	577 amino acids
Description	Hyaluronan or hyaluronic acid (HA) is a high molecular weight unbranched polysaccharide synthesized by a wide variety of organisms from bacteria to mammals, and is a constituent of the extracellular matrix. It consists of alternating glucuronic acid and N-acetylglucosamine residues that are linked by beta-1-3 and beta-1-4 glycosidic bonds. HA is synthesized by membrane-bound synthase at the inner surface of the plasma membrane, and the chains are extruded through pore-like structures into the extracellular space. It serves a variety of functions, including space filling, lubrication of joints, and provision of a matrix through which cells can migrate. HA is actively produced during wound healing and tissue repair to provide a framework for ingrowth of blood vessels and fibroblasts. Changes in the serum concentration of HA are associated with inflammatory and degenerative arthropathies such as rheumatoid arthritis. In addition, the interaction of HA with the leukocyte receptor CD44 is important in tissue-specific homing by leukocytes, and overexpression of HA receptors has been correlated with tumor metastasis. HAS1 is a member of the newly identified vertebrate gene family encoding putative hyaluronan

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	synthases, and its amino acid sequence shows significant homology to the hasA gene product of Streptococcus pyogenes, a glycosaminoglycan synthetase (DG42) from Xenopus laevis, and a recently described murine hyaluronan synthase. [provided by RefSeq
Molecular Mass	89.87 kDa
AA Sequence	MRQDAPKPTPAARRCSGLARRVLTIAFALLILGLMTWAYAAGVPLASDRYGLLAFGL YGAFLSAHLVAQSLFAYLEHRRVAAAARGPLDAATARSVALTISAYQEDPAYLRQCL ASARALLYPRARLRVLMVVDGNRAEDLYMVDMFREVFADEDPATYVWDGNYHQP WEPAAAGAVGAGAYREVEAEDPGRLAVEALVRTRRCVCVAQRWGGKREVMYTAF KALGDSMDYVQVCDSDTRLDPMALLELVRVLDEDPRVGAVGGDVRILNPLDSWVSF LSSLRYWVAFNVERACQSYFHCVSCISGPLGLYRNNLLQQFLEAWYNQKFLGTHCT FGDDRHLTNRMLSMGYATKYTSRSRCYSETPSSFLRWLSQQTRWSKSYFREWLYN ALWWHRHHAWMTYEAVVSGLFPFFVAATVLRLFYAGRPWALLWVLLCVQGVALAK AAFAAWLRGCLRMVLLSLYAPLYMCGLLPAKFLALVTMNQSGWGTSGRRKLAANY VPLLPLALWALLLLGGLVRSVAHEARADWSGPSRAAEAYHLAAGAGAYVGYWVAM LTLYWVGVRRLCRRRTGGYRVQV
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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GENE INFORMATION

Gene Name	HAS1 hyaluronan synthase 1 [Homo sapiens]
Official Symbol	HAS1
Synonyms	HAS1; hyaluronan synthase 1; HAS; huHAS1; HA synthase 1; hyaluronate synthase 1; hyaluronic acid synthase 1;
Gene ID	3036
mRNA Refseq	NM_001523
Protein Refseq	NP_001514
MIM	601463
UniProt ID	Q92839

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