

Recombinant Human HAS2 Protein, GST-tagged

Cat. No. HAS2-4584H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HAS2 partial ORF (NP_005319, 102 a.a. - 200 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. HAS2 is a member of the newly identified vertebrate gene family encoding putative hyaluronan synthases, and its amino acid sequence shows significant homology to glycosaminoglycan synthetase (DG42) from <i>Xenopus laevis</i>, and human and murine

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	hyaluronan synthase 1. [provided by RefSeq]
Molecular Mass	36.63 kDa
AA Sequence	CLQSVKRLTYPGIKVVMVIDGNSEDDLYMMDIFSEVMGRDKSATYIWKNNFHEKGP GETDESHKESSQHVTQLVLSNKSICIMQKWGGKREVMYTAFA
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.

GENE INFORMATION

Gene Name	HAS2 hyaluronan synthase 2 [Homo sapiens (human)]
Official Symbol	HAS2
Synonyms	HAS2; hyaluronan synthase 2; hyaluronan synthase 2; HA synthase 2; hyaluronate synthase 2; hyaluronic acid synthase 2; EC 2.4.1.212
Gene ID	3037
mRNA Refseq	NM_005328

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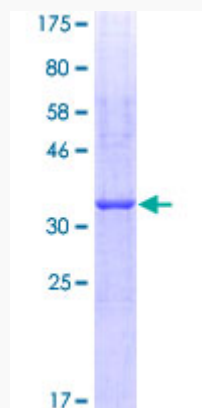
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Protein Refseq NP_005319

MIM 601636

UniProt ID Q92819

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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