

Recombinant Human HAS2 Protein (Glu67-Thr172), His tagged

Cat. No. HAS2-3351H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HAS2 (Glu67-Thr172) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu67-Thr172
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

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synthases, and its amino acid sequence shows significant homology to glycosaminoglycan synthetase (DG42) from *Xenopus laevis*, and human and murine hyaluronan synthase 1.

Molecular Mass	13.75 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	HAS2 hyaluronan synthase 2 [<i>Homo sapiens</i> (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

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mRNA Refseq	NM_005328
Protein Refseq	NP_005319
MIM	601636
UniProt ID	Q92819

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