Recombinant Human HAS2 Protein, His-tagged

Cat. No. HAS2-2230H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAS2 Protein (Glu67-Thr172) with a N-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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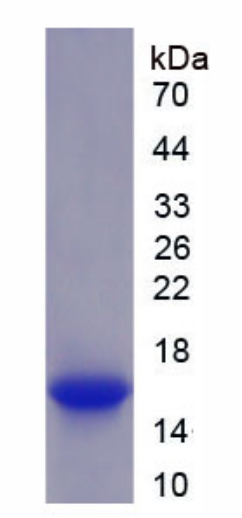
	synthases, and its amino acid sequence shows significant homology to glycosaminoglycan synthetase (DG42) from Xenopus laevis, and human and murine hyaluronan synthase 1.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 15.9 kDa Accurate Molecular Mass: 16 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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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
Protein Refseq	NP_005319
MIM	601636
UniProt ID	Q92819

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