

Full-Length

HAS1 (Human) Recombinant Protein (P01)

Catalog # H00003036-P01 Size 50 ug

Specification	
Product Description	Human HAS1 full-length ORF (AAH35837.1, 1 a.a 577 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	MRQDAPKPTPAARRCSGLARRVLTIAFALLILGLMTWAYAAGVPLASDRYGLLAFGLYGAFLSAHL VAQSLFAYLEHRRVAAAARGPLDAATARSVALTISAYQEDPAYLRQCLASARALLYPRARLRVLM VVDGNRAEDLYMVDMFREVFADEDPATYVWDGNYHQPWEPAAAGAVGAGAYREVEAEDPGRL AVEALVRTRRCVCVAQRWGGKREVMYTAFKALGDSMDYVQVCDSDTRLDPMALLELVRVLDE DPRVGAVGGDVRILNPLDSWVSFLSSLRYWVAFNVERACQSYFHCVSCISGPLGLYRNNLLQQF LEAWYNQKFLGTHCTFGDDRHLTNRMLSMGYATKYTSRSRCYSETPSSFLRWLSQQTRWSKSYF REWLYNALWWHRHHAWMTYEAVVSGLFPFFVAATVLRLFYAGRPWALLWVLLCVQGVALAKAA FAAWLRGCLRMVLLSLYAPLYMCGLLPAKFLALVTMNQSGWGTSGRRKLAANYVPLLPLALWAL LLLGGLVRSVAHEARADWSGPSRAAEAYHLAAGAGAYVGYWVAMLTLYWVGVRRLCRRRTGGY RVQV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	89.87
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

Enzyme-linked Immunoabsorbent Assay



- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HAS1	
Entrez GenelD	3036
GeneBank Accession#	BC035837.1
Protein Accession#	AAH35837.1
Gene Name	HAS1
Gene Alias	HAS
Gene Description	hyaluronan synthase 1
Omim ID	601463
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Hyaluronan or hyaluronic acid (HA) is a high molecular weight unbranched polysaccharide synthes ized by a wide variety of organisms from bacteria to mammals, and is a constituent of the extracel lular matrix. It consists of alternating glucuronic acid and N-acetylglucosamine residues that are lin ked 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 struct ures 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 fibrobla sts. 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 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
Other Designations	-

Disease

Genetic Predisposition to Disease



Waldenstrom Macroglobulinemia