

## HAS2 Protein, Mouse (His)

<b>Cat. No.:</b>	HY-P72222
<b>Synonyms:</b>	Has2; Hyaluronan synthase 2; EC 2.4.1.212; Hyaluronate synthase 2; Hyaluronic acid synthase 2; HA synthase 2
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	P70312 (E67-L374)
<b>Gene ID:</b>	15117
<b>Molecular Weight:</b>	Approximately 39.9 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> E H R K M K K S L E   T P I K L N K T V A   L C I A A Y Q E D P   D Y L R K K L Q S V K R L T Y P G I K V   V M V I D G N S D D   D L Y M M D I F S E   V M G R D K S A T Y I W K N N F H E K G   P G E T E E S H K E   S S Q H V T Q L V L   S N K S I C I M Q K W G G K R E V M Y T   A F R A L G R S V D   Y V Q V C D S D T M   L D P A S S V E M V K V L E E D P M V G   G V G G D V Q I L N   K Y D S W I S F L S   S V R Y W M A F N I E R A C Q S Y F G C   V Q C I S G P L G M   Y R N S L L H E F V   E D W Y N Q E F M G N Q C S F G D D R H   L T N R V L S L G Y   A T K Y T A R S K C   L T E T P I E Y L R W L N Q Q T R W S K   S Y F R E W L Y N A   M W F H K H H L </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	HAS2 protein plays a pivotal role in hyaluronan synthesis by catalyzing the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. As a key isozyme involved in this process, HAS2 contributes significantly to the formation of high molecular mass hyaluronan, a major component of most extracellular matrices. This hyaluronan polymer, with its
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structural role in tissue architectures, plays a crucial role in regulating cell adhesion, migration, and differentiation. HAS2's importance extends to developmental processes, as it is required for the transition of endocardial cushion cells into mesenchymal cells, a critical step in heart development. Additionally, HAS2 may play a role in vasculogenesis. The synthesis of high molecular mass hyaluronan by HAS2 is particularly noteworthy in early contact inhibition, a cellular process that halts growth upon cell contact with other cells or the extracellular matrix. In summary, HAS2 emerges as a central player in the intricate orchestration of hyaluronan-mediated cellular and developmental functions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA