

Heparan Sulfate-6-O-Sulfotransferase-3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P79181
Synonyms:	Heparan-sulfate 6-O-sulfotransferase 3
Species:	Mouse
Source:	HEK293
Accession:	NP_056635.2 (P28-W470)
Gene ID:	50787
Molecular Weight:	Approximately 75-110 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<pre> P S C T S S C T N F G E Q L R S G E A R P P A V P S P A R R A Q A P L D E W E R R P Q L P P P P R G P P E G S R G V A A P E D E D E D P G D P E E E E E E E E E E P D P E A P E N G S L P R F V P R F N F T L K D L T R F V D F N I K G R D V I V F L H I Q K T G G T T F G R H L V K N I R L E Q P C S C K A G Q K K C T C H R P G K K E T W L F S R F S T G W S C G L H A D W T E L T N C V P A I M E K K D C P R N H S H T R N F Y Y I T M L R D P V S R Y L S E W K H V Q R G A T W K T S L H M C D G R S P T P D E L P T C Y P G D D W S G V S L R E F M D C S Y N L A N N R Q V R M L A D L S L V G C Y N L T F M N E S E R N T I L L Q S A K N N L K N M A F F G L T E F Q R K T Q F L F E R T F N L K F I S P F T Q F N I T R A S N V D I N D G A R Q H I E E L N F L D M Q L Y E Y A K D L F Q Q R Y H H T K Q L E H Q R D R Q K R R E E R R L Q R E H R A H R W P K E D R A M E G T V T E D Y N S Q V V R W </pre>
Biological Activity	Measured by its ability to transfer sulfate from PAPS to heparan sulfate. The specific activity is 73.892 pmol/min/μg that incubate at 37 °C for 20 minutes.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Heparan Sulfate-6-O-Sulfotransferase-3 (HS6ST3) is a protein that exhibits heparan sulfate 6-O-sulfotransferase activity and is implicated in the enzymatic modification of heparan sulfate proteoglycan biosynthetic processes. Predicted to be situated in the membrane as an integral component, HS6ST3 demonstrates biased expression in various tissues, including the cortex adult (RPKM 1.3) and frontal lobe adult (RPKM 0.8), suggesting its potential role in shaping the sulfation patterns of heparan sulfate within these contexts.

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

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