Recombinant mouse Hyaluronan synthase 2

Catalog No: #AP72588

Package Size: #AP72588-1 20ug #AP72588-2 100ug #AP72588-3 1mg

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant mouse Hyaluronan synthase 2
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:67-374aaSequence Info:Cytoplasmic Domain
Other Names	Hyaluronate synthase 2Hyaluronic acid synthase 2 ;HA synthase 2
Accession No.	P70312
Uniprot	P70312
GeneID	15117;
Calculated MW	37.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	EHRKMKKSLETPIKLNKTVALCIAAYQEDPDYLRKCLQSVKRLTYPGIKVVMVIDGNSDDDLYMMDIFSEVMGR DKSATYIWKNNFHEKGPGETEESHKESSQHVTQLVLSNKSICIMQKWGGKREVMYTAFRALGRSVDYVQVCD SDTMLDPASSVEMVKVLEEDPMVGGVGGDVQILNKYDSWISFLSSVRYWMAFNIERACQSYFGCVQCISGPL GMYRNSLLHEFVEDWYNQEFMGNQCSFGDDRHLTNRVLSLGYATKYTARSKCLTETPIEYLRWLNQQTRWS KSYFREWLYNAMWFHKHHL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. Therefore, it is essential to hyaluronan synthesis a major component of most Extracellular domain matrices that has a structural role in tissues architectures and regulates cell adhesion, migration and differentiation. This is one of the isozymes catalyzing that reaction and it is particularly responsible for the synthesis of high molecular mass hyaluronan. Required for the transition of endocardial cushion cells into mesenchymal cells, a process crucial for heart development. May also play a role in vasculogenesis. High molecular mass hyaluronan also play a role in early contact inhibition a process which stops cell growth when cells come into contact with each other or the Extracellular domain matrix.

References

Three isoforms of mammalian hyaluronan synthases have distinct enzymatic properties.Itano N., Sawai T., Yoshida M., Lenas P., Yamada Y., Imagawa M., Shinomura T., Hamaguchi M., Yoshida Y., Ohnuki Y., Miyauchi S., Spicer A.P., McDonald J.A., Kimata K.J. Biol. Chem. 274:25085-25092(1999)Research Topic:Others

Note: This product is for in vitro research use only