Datasheet for ABIN7554113

HS3ST5 Protein (AA 1-346) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	HS3ST5
Protein Characteristics:	AA 1-346
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HS3ST5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HS3ST5 Protein expressed in mammalian cells.
Sequence:	MLFKQQAWLR QKLLVLGSLA VGSLLYLVAR VGSLDRLQPI CPIEGRLGGA RTQAEFPLRA LQFKRGLLHE FRKGNASKEQ VRLHDLVQQL PKAIIIGVRK GGTRALLEML NLHPAVVKAS QEIHFFDNDE NYGKGIEWYR KKMPFSYPQQ ITIEKSPAYF ITEEVPERIY KMNSSIKLLI IVREPTTRAI SDYTQVLEGK ERKNKTYYKF EKLAIDPNTC EVNTKYKAVR TSIYTKHLER WLKYFPIEQF HVVDGDRLIT EPLPELQLVE KFLNLPPRIS QYNLYFNATR GFYCLRFNII FNKCLAGSKG RIHPEVDPSV ITKLRKFFHP FNQKFYQITG RTLNWP **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	HS3ST5
Alternative Name:	HS3ST5 (HS3ST5 Products)
Background:	Heparan sulfate glucosamine 3-O-sulfotransferase 5 (EC 2.8.2.23) (Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 5) (3-OST-5) (Heparan sulfate 3-O-sulfotransferase 5) (h3-OST-5),FUNCTION: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan. Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site. Also generates GlcUA-GlcNS or IdoUA-GlcNS and IdoUA2S-GlcNH2. The substrate-specific O-sulfation generates an enzyme-modified heparan sulfate which acts as a binding receptor to Herpes simplex virus-1 (HSV-1) and permits its entry. {ECO:0000269|PubMed:12138164}.
Molecular Weight:	40.4 kDa
UniProt:	Q8IZT8
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months