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Datasheet for ABIN3081467 HS3ST5 Protein (AA 33-346) (His tag)



Overview

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Quantity:	1 mg
Target:	HS3ST5
Protein Characteristics:	AA 33-346
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HS3ST5 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	SLDRLQPICP IEGRLGGART QAEFPLRALQ FKRGLLHEFR KGNASKEQVR LHDLVQQLPK
	AIIIGVRKGG TRALLEMLNL HPAVVKASQE IHFFDNDENY GKGIEWYRKK MPFSYPQQIT
	IEKSPAYFIT EEVPERIYKM NSSIKLLIIV REPTTRAISD YTQVLEGKER KNKTYYKFEK LAIDPNTCEV
	NTKYKAVRTS IYTKHLERWL KYFPIEQFHV VDGDRLITEP LPELQLVEKF LNLPPRISQY
	NLYFNATRGF YCLRFNIIFN KCLAGSKGRI HPEVDPSVIT KLRKFFHPFN QKFYQITGRT LNWP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human HS3ST5 Protein (raised in E. Coli) purified by multi-step, protein-specific process to process to protein experts.
	ensure crystallization grade.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

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	experts in the lab will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in bacterial culture:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Target:	HS3ST5
Alternative Name:	HS3ST5 (HS3ST5 Products)
Background:	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

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Target Details

	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.
	{EC0:0000269 PubMed:12138164}.
Molecular Weight:	37.8 kDa Including tag.
UniProt:	Q8IZT8
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

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