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Datasheet for ABIN3136894 TGS1 Protein (AA 1-853) (His tag)

Image



Overview

Quantity:	1 mg
Target:	TGS1
Protein Characteristics:	AA 1-853
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGS1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MCCEKWNHVA EMLLFIEDRE EEYKILCLCS RAFVEDRKLY NLGLKGYYVK SSGNNAGDQG
	TEEEEDGHSN GTAESHSPNE SDLDSEAKLM RSMGLPIQFG RMSSHENFEM SMNARNKAKV
	KQKRRKHQKR YLDEMVRESW RNDYEEDDLV VSDDPSSVEH CENNRTCEIQ SKAGSEVENL
	PVENTLAPKL EVPENWEKYW NEYGEGLLWQ SWQEKYPDQT LSSEPWNLPD TKEEWEQHYS
	QLYWYYLEQF QYWEAQGWTF TASQNCDKDV YTSHTEVDQN AESSLKADVM TFSSSPNIVE
	DEIPGSNDND HNEIITAINN ITVSAEKVEQ SQLDSSQHCD EPLSEITGKE CPASGGSDSC
	NGTPKENDIS ENRSSDQPAK ELQESSGTNK GKHRPHHNGA DGHESDDDPP EHKPSKVKRS
	HELDVDENPD SEVDDNGFLL GFKHGSGQKY GGIPNFSHRQ VRYLEKNVKY KSKYLDLRKQ
	MPVKSKHILF TEDSGKPFVV CKSKVRSKVE KFLKWVNERV DEETSQDSLS QNKMQDTCTS
	SDSEEQDMSL EKADNLMETR DPEPEKCQII SSATELEAEK SEVGSLVATV PENCSTEEIP
	NSPHAETEVE IKKKKKKNKN KKINDLPPEI ASVPELAKYW AQRYRLFSRF DDGIKLDKEG
	WFSVTPEKIA EHIAGRVSQA FRCDVVVDAF CGVGGNTIQF ALTGKRVIAI DIDPVKIDLA

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	RNNAEVYGIA DKIEFICGDF LLLAPCLKAD VVFLSPPWGG PDYATAETFD IRTMMSPDGF
	EIFRLSQKIT NNIVYFLPRN ADIDQVASLA GLGGQVEIEQ NFLNNKLKTI TAYFGDLIRR
	PALLKTSTSE AEV
	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. Mouse Tgs1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to 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
	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 baculovirus infected SF9 insect cells:
	 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

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Product Details		
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	

Target Details

Target:	TGS1	
Alternative Name:	Tgs1 (TGS1 Products)	
Background:	Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m(7)G) caps of snRNAs and snoRNAs to a 2,2,7-trimethylguanosine (m(2,2,7)G) cap structure. The enzyme is specific for guanine, and N7 methylation must precede N2 methylation. Hypermethylation of the m7G cap of U snRNAs leads to their concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation (By similarity). {ECO:0000250, ECO:0000269 PubMed:11517327}.	
Molecular Weight:	97.7 kDa Including tag.	
UniProt:	Q923W1	
Pathways:	Mitotic G1-G1/S Phases, Regulation of Lipid Metabolism by PPARalpha, Ribonucleoprotein Complex Subunit Organization	
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 gurantee though.	
Comment:	Protein has not been tested for activity yet. 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.	

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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