

Datasheet for ABIN7555781
TGS1 Protein (AA 1-853) (His tag)



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Overview

Quantity:	1 mg
Target:	TGS1
Protein Characteristics:	AA 1-853
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat TGS1 Protein expressed in mammalian cells.
Sequence:	MCCEKWSRVA EMFLFIEERE DCKILCLCSR AFVEDRKLYN LGLKGYIIRD SGNNSGDQAT EEEEGGYSCG TAESHDSKGI GLDEELDSE AELMRSMGLP LQFGRITAHK DFEVSMNTRN KVKIKKKKHQ KKYLDIVQE SWRKEYEEDD ILASDDPSSI EQYENTRTYE LQSKKDTETE NPPVENTLSP KLEITEKWEK YWNEYGGGLL WQSWQEKHPG QALSSEPWNF PDTKEEWEQH YSQLYWYYLE QFYWEAQGW TFDASQSCDT DTYTSKTEAD DKNDEKCMKV DLVSFPSSPI MVDNDSSGTS DKDHSEILDG ISNIKLNSEE VTQSQLDSCT SHDGHQQLSE VSSKRECPAS GQSEPRNGGT NEESNSSGNT NTDPPAEDSQ KSSGANTSKD RPHASGTDGD ESEEDPPEHK PSKLRSHL DIDENPASDF DSGSLLGFK YGSGQKYGGI PNFSHRQVRY LEKNVCLKSK YLDMRRQIKM KNKHIFFTKE SEKPFKSK ILSKVEKFLT WVNKPMDEEA SQESSSHDNV HDASTSSDSE EQDMSVKKGD DLLETNNPEP EKCQSVSSAG ELETENYERD SLLATVPDEQ DCVTQVEPDS RQAETAEVK KKKKKKKKKK VNGLPPEIAA VPELAKYWAQ RYRLFSTRFDD

Product Details

GIKLDREGWF SVTPEKIAEH IAGRVSQSFK CDVVVDAFCG VGGNTIQFAL TGMRVIAIDI
DPVKIALARN NAEVYGIADK IEFICGDFLL LASFLKADV FLSPPWGGPD YATAETFDIR
TMMSPDGFEI FRLSKKITNN IVYFLPRNAD IDQVASLAGP GGQVEIEQNF LNNKLKTITA
YFGDLIRRPA SET **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.**

Characteristics:

Key Benefits:

- 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, Western Blot

Grade:

custom-made

Target Details

Target:

TGS1

Alternative Name:

TGS1 ([TGS1 Products](#))

Background:

Trimethylguanosine synthase (EC 2.1.1.-) (CLL-associated antigen KW-2) (Cap-specific guanine-N2 methyltransferase) (Hepatocellular carcinoma-associated antigen 137) (Nuclear receptor coactivator 6-interacting protein) (PRIP-interacting protein with methyltransferase motif) (PIMT) (PIPMT),FUNCTION: 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

Target Details

concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation. {ECO:0000269|PubMed:11517327, ECO:0000269|PubMed:11912212, ECO:0000269|PubMed:16687569, ECO:0000269|PubMed:18775984}.

Molecular Weight: 96.6 kDa

UniProt: [Q96RS0](#)

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 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