CST Complex Subunit STN1 (STN1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	CST complex subunit STN1 (STN1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana CST complex subunit STN1 (STN1)
Product Gene Name	STN1 recombinant protein
Product Synonym Gene Name	STN1
Sequence	MDRSLQSTHA KLVARDIQRL TQSPTESNSF SLLGGACVSR VEIVGTIVSR DLTPKFLKFG VDDGTGCVTC VMWLNQLTSS YFSRWDPATI LLLASAARKQ AAQIRIGAVA RVRGRVGSYR GVMQITANVA VAERDPNAEI LHWLECLKLG QSCYRVRIQS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	17,598 Da
Sequence Positions	1-160, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9LMK5
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for STN1 recombinant protein	MBS1447923 is a recombinant protein targeting STN1. Also known as Recombinant Arabidopsis thaliana CST complex subunit STN1 (STN1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of STN1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STN1. It may not necessarily be applicable to this product.

NCBI GI #	18390729
NCBI GeneID	837223
NCBI Accession #	NP_563781.1
UniProt Primary Accession #	Q9LMK5
UniProt Related Accession #	Q9LMK5
GenBank Nucleotide #	NM_100586.2

NCBI Official Full Name	Nucleic acid-binding, OB-fold-like protein
NCBI Official Symbol	STN1
NCBI Official Synonym Symbols	ATSTN1; F10K1.17; F10K1_17
UniProt Protein Name	CST complex subunit STN1
UniProt Synonym Protein Names	Suppressor of cdc thirteen homolog
Protein Family	Protein
UniProt Gene Name	STN1
UniProt Synonym Gene Names	AtSTN1
NCBI Protein Information	Nucleic acid-binding, OB-fold-like protein
NCBI Summary for STN1	Encodes a protein with similarity to yeast STN1, an OB fold protein involved in protecting yeast telomeres. In Arabidopsis, loss of STN1 function mutations exhibit gross morphological abnormalities and defects in telomere architecture and maintenance. STN1 likely plays a role in telomere end capping.
UniProt Comments for STN1	Component of the CST complex, a complex that binds to single-stranded DNA and is required to protect telomeres from DNA degradation. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves (PubMed:19064932). Associates with enzymatically active telomerase (PubMed:25329641). Plays a genomewide role in DNA replication and facilitates re-replication at non-telomeric loci (PubMed:25299252).
Research Articles on STN1	**1.** STN1 plays a genome-wide role in DNA replication and telomere stability.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/cst-complex-subunit-stn1-stn1/1447923