Mediator of RNA Polymerase II Transcription Subunit 23 (sur-2) Caenorhabditis Elegans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mediator of RNA polymerase II transcription subunit 23 (sur-2), Recombinant Protein
Full Product Name	Recombinant Caenorhabditis elegans Mediator of RNA polymerase II transcription subunit 23 (sur-2), partial
Product Gene Name	sur-2 recombinant protein
Product Synonym Gene Name	sur-2
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	184,119 Da
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 Q10669
Species	Caenorhabditis elegans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for sur-2 recombinant protein	MBS1320904 is a recombinant protein targeting sur-2. Also known as Recombinant Caenorhabditis elegans Mediator of RNA polymerase II transcription subunit 23 (sur-2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of sur-2 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 sur-2. It may not necessarily be applicable to this product.

NCBI GI #	71985870
NCBI GeneID	173345
NCBI Accession #	NP_001021463.1
UniProt Primary Accession #	Q10669
UniProt Secondary Accession #	O45497; Q9U3G5
UniProt Related Accession #	Q10669
GenBank Nucleotide #	NM_001026292.3
NCBI Official Full Name	Mediator of RNA polymerase II transcription subunit 23

NCBI Official Symbol	sur-2
UniProt Protein Name	Mediator of RNA polymerase II transcription subunit 23
UniProt Synonym Protein Names	Mediator complex subunit 23; Mediator complex subunit sur-2
UniProt Gene Name	sur-2
UniProt Synonym Gene Names	mdt-23
NCBI Protein Information	Mediator of RNA polymerase II transcription subunit 23
UniProt Comments for sur-2	Component of the Mediator complex, a coactivator involved in regulated gene transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional pre-initiation complex with RNA polymerase II and the general transcription factors (). Functions downstream of receptor let-23 and let-60/Ras during vulval induction likely by down-regulating the expression of phosphatase dep-1 and lin-12/Notch in vulva precursor cell descendants with a primary cell fate (PubMed:7557379, PubMed:15901674). Acts to repress beta-catenin target genes (PubMed:12130541). Required for asymmetric division of T-cells (PubMed:15790964). Plays a role in responses to M.nematophilum-mediated bacterial infection by promoting tail swelling and preventing constipation (PubMed:15268855).
Research Articles on sur-2	**1.** Study shows that sur-2 mutation affects the Cbr-sur-2/MED23 gene that is orthologous to a C. elegans gene critical for the normal response to the EGF signal. whereas Cel-sur-2 mutants exhibit a reduced vulval development because of defects in the VPC immediately adjacent to the anchor cell (the P6.p cell), similar defects in Caenorhabditis briggsae -sur-2 mutants do not have the same impact.
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