Meiotic Mrna Stability Protein Kinase SSN3 (SSN3) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Meiotic mRNA stability protein kinase SSN3 (SSN3), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Meiotic mRNA stability protein kinase SSN3 (SSN3) , partial
Product Gene Name	SSN3 recombinant protein
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	62,847 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 P39073
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SSN3 recombinant protein	MBS1236123 is a recombinant protein targeting SSN3. Also known as Recombinant Saccharomyces cerevisiae Meiotic mRNA stability protein kinase SSN3 (SSN3) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SSN3 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 SSN3. It may not necessarily be applicable to this product.

NCBI GI #	6325215
NCBI GeneID	856065
NCBI Accession #	NP_015283.1
UniProt Primary Accession #	P39073
UniProt Secondary Accession #	D6W3X1
UniProt Related Accession #	P39073
GenBank Nucleotide #	NM_001183856.1
NCBI Official Full Name	cyclin-dependent serine/threonine protein kinase SSN3
NCBI Official Symbol	SSN3

NCBI Official Synonym Symbols	CDK8; GIG2; NUT7; RYE5; SRB10; SSX7; UME5; URR1
UniProt Protein Name	Meiotic mRNA stability protein kinase SSN3
UniProt Synonym Protein Names	Cyclin-dependent kinase 8; Suppressor of RNA polymerase B SRB10
Protein Family	Meiotic mRNA stability protein kinase
UniProt Gene Name	SSN3
UniProt Synonym Gene Names	ARE1; CDK8; GIG2; SRB10; UME5
NCBI Protein Information	cyclin-dependent serine/threonine protein kinase SSN3
UniProt Comments for SSN3	Component of the SRB8-11 complex. The SRB8-11 complex is a regulatory module of the Mediator complex which is itself involved in regulation of basal and activated RNA polymerase II-dependent transcription. The SRB8-11 complex may be involved in the transcriptional repression of a subset of genes regulated by Mediator. It may inhibit the association of the Mediator complex with RNA polymerase II to form the holoenzyme complex. The SRB8-11 complex phosphorylates the C-terminal domain (CTD) of the largest subunit of RNA polymerase II RPB1 at serines 2 and 5. The SSN3/SRB10 and SSN8/SRB11 kinase-cyclin pair may also positively and negatively regulate numerous transcriptional activators in response to changes in nutritional and physiological conditions. Phosphorylates GCN4, promoting its ubiquitin-mediated degradation, and MSN2, promoting its nuclear exclusion. Phosphorylates STE12, thereby promoting its degradation and inhibition of filamentous growth. Phosphorylates GAL4, and this phosphorylation is required for efficient galactose-inducible transcription. Also phosphorylates BDF1 and the TAF2 subunit of the TFIID complex.
Research Articles on SSN3	**1.** While active INO1 is associated with Cdk8(-) Mediator, during INO1 transcriptional memory, Cdk8(+) Mediator recruits poised RNAPII PIC lacking the Kin28 CTD kinase.
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