FACT Complex Subunit Spt16 (dre4) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	FACT complex subunit spt16 (dre4), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster FACT complex subunit spt16 (dre4), partial
Product Gene Name	dre4 recombinant protein
Product Synonym Gene Name	dre4
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	127,781 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 Q8IRG6
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dre4 recombinant protein	MBS1335164 is a recombinant protein targeting dre4. Also known as Recombinant Drosophila melanogaster FACT complex subunit spt16 (dre4), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dre4 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 dre4. It may not necessarily be applicable to this product.

NCBI GI #	45549019
NCBI GeneID	38248
NCBI Accession #	NP_476610.2
UniProt Primary Accession #	Q8IRG6
UniProt Secondary Accession #	O17045; O17046; Q7YTY1; Q86SB9; Q9W071
UniProt Related Accession #	Q8IRG6
GenBank Nucleotide #	NM_057262.4
NCBI Official Full Name	dre4, isoform A
NCBI Official Symbol	dre4

NCBI Official Synonym Symbols	CG1828; DmelCG1828; Dre4; DRE4; DRE4/dSPT16; dspt16; dSpt16; dSPT16; l(3)62Bg; l(3)dre4; spt16; Spt16; SPT16
UniProt Protein Name	FACT complex subunit spt16
UniProt Synonym Protein Names	Facilitates chromatin transcription complex subunit SPT16; dSPT16
Protein Family	Pre-mRNA-splicing factor
UniProt Gene Name	dre4
UniProt Synonym Gene Names	spt16
NCBI Protein Information	CG1828 gene product from transcript CG1828-RB
UniProt Comments for dre4	Component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II. The FACT complex is required for expression of Hox genes.
Research Articles on dre4	**1.** results show that FACT, a complex that comprises Spt16 and SSRP1, is associated with actively transcribed RNA polymerase II genes on Drosophila polytene chromosomes
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