Nuclear Cap-Binding Protein Subunit 2 (CBP20) Drosophila Simulans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nuclear cap-binding protein subunit 2 (Cbp20), Recombinant Protein
Full Product Name	Recombinant Drosophila simulans Nuclear cap-binding protein subunit 2 (Cbp20)
Product Gene Name	Cbp20 recombinant protein
Sequence	MFASVELSSY RDQHFKGSRS EQERSLRDSC TLYVGNLSFY TTEEQIHELF SRCGDVRVIV MGLDKYKKTP CGFCFVEYYV RSEAEAAMRF VNGTRLDDRL IRVDWDAGFV EGRQYGRGKT GGQVRDEYRT DYDAGRGGYG KLLSQKIAPN TDNR
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	17,719 Da
Sequence Positions	1-154, 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 B4QV17
Species	Drosophila simulans (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cbp20 recombinant protein	MBS1262616 is a recombinant protein targeting Cbp20. Also known as Recombinant Drosophila simulans Nuclear cap-binding protein subunit 2 (Cbp20). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Cbp20 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 Cbp20. It may not necessarily be applicable to this product.

NCBI GI #	195570001
NCBI GeneID	6727618
NCBI Accession #	XP_002102997.1
UniProt Primary Accession #	B4QV17
UniProt Related Accession #	B4QV17
GenBank Nucleotide #	XM_002102961.2
NCBI Official Full Name	uncharacterized protein Dsimw501_GD19204

NCBI Official Symbol	DsimGD19204
NCBI Official Synonym Symbols	dsim_GLEANR_3005; GD19204
UniProt Protein Name	Nuclear cap-binding protein subunit 2
UniProt Synonym Protein Names	20 kDa nuclear cap-binding protein; NCBP 20 kDa subunit; CBP20
UniProt Gene Name	Cbp20
UniProt Synonym Gene Names	CBP20
NCBI Protein Information	GD19204 gene product from transcript GD19204-RA
UniProt Comments for Cbp20	Component of the cap-binding complex (CBC), which binds co-transcriptionally to the 5' cap of pre-mRNAs and is involved in various processes such as pre-mRNA splicing and RNA-mediated gene silencing (RNAi). The CBC complex is involved in miRNA-mediated RNA interference via its interaction with Ars2 and is required for primary microRNAs (miRNAs) processing. Also involved in innate immunity via the short interfering RNAs (siRNAs) processing machinery by restricting the viral RNA production. In the CBC complex, Cbp20 recognizes and binds capped RNAs (m7GpppG-capped RNA) but requires Cbp80 to stabilize the movement of its N-terminal loop and lock the CBC into a high affinity cap-binding state with the cap structure ().
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