Double-Stranded RNA-Specific Editase Adar (ADAR) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Double-stranded RNA-specific editase Adar (Adar), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Double-stranded RNA-specific editase Adar (Adar), partial
Product Gene Name	Adar recombinant protein
Product Synonym Gene Name	Adar
Sequence	VISVSTGTKC VSGEHMSVNG AVLNDSHAEI VSRRCLLKYL YAQLDLQCNQ ATAYQSIFVR NTDGQYPYKL KSGVHFHLYI NTAPCGDARI FSPHENDTGV DKHPNRKARG QLRTKIESGE GTIPVKSSDG IQTWDGVLQG QRLLTMSCSD KIARWNIVGI QGSLLSSIIE PVYLHSIVLG SLLHPEHMYR AVCGRIEKSI QGLPPPYHLN KPRLALVTSA EPRNQAKAPN FGINWTIGDT ELEVVNSLTG RTIGGQVSRI TKQAFFVKYG FLMANLPGIL VRKVTTDYGQ TKANVKDYQI AKLELFSAFK REDLGSWLKK PIEQDEFGLA E
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	74,114 Da
Sequence Positions	346-676aa; Partial
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 Q9NII1
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Adar recombinant protein	MBS1472007 is a recombinant protein targeting Adar. Also known as Recombinant Drosophila melanogaster Double-stranded RNA-specific editase Adar (Adar), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Adar 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 Adar. It may not necessarily be applicable to this product.

NCBI GI #	386763618
NCBI GeneID	31130
NCBI Accession #	NP_001245469.1
UniProt Primary Accession #	Q9NII1

UniProt Secondary Accession #	O96834; Q8IRX2; Q8MSQ9; Q9BJ37; Q9NII2; Q9W562
GenBank Nucleotide #	NM_001258540.1
NCBI Official Full Name	adenosine deaminase acting on RNA, isoform I
NCBI Official Synonym Full Names	Adenosine deaminase acting on RNA
NCBI Official Symbol	Adar
NCBI Official Synonym Symbols	adar; ADAR; ADAR1; adr; cg12598; CG12598; dadar; dAdar; dADAR; DmelCG12598; EG:BACN35H14.1; hypnos-2
UniProt Protein Name	Double-stranded RNA-specific editase Adar
UniProt Synonym Protein Names	Adenosine deaminase that act on RNA; Pre-mRNA adenosine deaminase; RNA-editing deaminase 1; RNA-editing enzyme 1; dADAR; dsRNA adenosine deaminase
Protein Family	Double-stranded RNA-specific adenosine deaminase
UniProt Gene Name	Adar
NCBI Protein Information	CG12598 gene product from transcript CG12598-RF
UniProt Comments for Adar	Has A-to-I RNA editing activity on extended dsRNA: edits RNA-binding protein Rnp4F. A-to-I editing of pre-mRNAs acts predominantly through nervous system targets to affect adult nervous system integrity, function and behavior. Essential for adaptation to environmental stresses, such as oxygen deprivation, and for the prevention of premature neuronal degeneration, through the editing of ion channels as targets.
Research Articles on Adar	**1.** our data shows that ADAR is essential for proper temperature adaptation, a key behavior trait that is essential for survival of flies in the wild. Moreover, our results suggest a more general role of ADAR in regulating RNA secondary structures in vivo
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