

Product datasheet for **TP511714**

Adar (NM_019655) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse adenosine deaminase, RNA-specific (Adar), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211714 protein sequence Red =Cloning site Green =Tags(s)
	<p>MSQGFRGPTGVFPHQTQSYSDPSHEHSKWRYLQPQGPEYPRSFQLQQIEFLKGRLEAPLIGIQTQSLP PFLPGHWPRFPGPPAQDRQLEIWEFPRSVTLRNQGFHIGPPLPPPHSRGPPWRGADGLCSHFRELSISQS PEQKVLNRLEELGEGKATTAHVLAELRIPKRDINRILYSLEKKGKLHRGRGKPLWSLVLSQAWTQPP GVVNPDSQIQEFPRGEPGLDSEDGDPASDLEGPSEPLDMAEIKEKICDYLFNVSNSSALNLAKNIGLTKA RDVTSVLIDLERQGDVYRQGATPPIWYLTDKKRERLQMKRSTHSAPAPTLTAVPEATRSPSPACHPPPA GASSVAASKRVENGQEPAIKHESRHEARPGPMRLRPHAYHNGPSRAGYVASENGQWATDDIPDNLNSI H TAPGEFRAIMEMPSFYSPTLPRCSPYKKLTECQLKNPVSGLLEYAQFTSQTCDFNLIEQSGPSHEPRFKF QVVINGREFPPAEAGSKKQDAAVKAMAILLREAKAKDSGQPEDLSHCPMEEDSEKPAEAQAPSSSAT SLFSGKSPVTTLLECMHKLGNSCFRLLSKEGPAHDPKFQYCVAVGAQTFPPVSAPSKKQAKMAAEEAM KALQEEAASSADDQSGGANTDSLDESMAPNKIRRIGELVRYLNTNPVGGLLLEYARSHGFAAEFKLIDQSG PPHEPKFVYQAKVGGRWFPVAVCAHSKKQGKQDAADAALRVLIGESEKAEQLGFAELPLSGSTFHDQIAML SHRCFNALTNSFQPSLLGRKILAAIIMKRPEDMGVVVSLGTGNRCVKGDSLKGETVNDCHAEIISRR GFIRFLYSELMKYNHHTAKNSIFELARGGEKLQIKKTVSFHLYISTAPCGDGALFDKSCSDRAVESTESR HYPVFENPKQGKLRRTKVENGEGTIPVESSDIVPTWDGIRLGERLRTMSCSDKILRWNVLGLQGALLTHFL QPVYLSVTLGYLFSQGHLTRAIICRVTRDGKAFEDGLRYPFIVNHPKVGRVSVYDSKRQSGKTKETSVN WCMADGYDLEILDGTRGTVDGP GKELSRVSKKNIFLQFKKLCFRARRDLLQLSYGEAKKAARDYDLAKN YFKKSLRDMGYGNWISKPQEEKNFYLCVPND</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	127.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_062629
Locus ID:	56417
UniProt ID:	Q99MU3
RefSeq Size:	5850
Cytogenetics:	3 F1
RefSeq ORF:	3456
Synonyms:	Adar1; Adar1p110; Adar1p150; AV242451; mZaADAR
Summary:	<p>Catalyzes the hydrolytic deamination of adenosine to inosine in double-stranded RNA (dsRNA) referred to as A-to-I RNA editing. This may affect gene expression and function in a number of ways that include mRNA translation by changing codons and hence the amino acid sequence of proteins; pre-mRNA splicing by altering splice site recognition sequences; RNA stability by changing sequences involved in nuclease recognition; genetic stability in the case of RNA virus genomes by changing sequences during viral RNA replication; and RNA structure-dependent activities such as microRNA production or targeting or protein-RNA interactions. Can edit both viral and cellular RNAs and can edit RNAs at multiple sites (hyper-editing) or at specific sites (site-specific editing). Its cellular RNA substrates include: bladder cancer-associated protein (BLCAP), neurotransmitter receptors for glutamate (GRIA2) and serotonin (HTR2C) and GABA receptor (GABRA3). Site-specific RNA editing of transcripts encoding these proteins results in amino acid substitutions which consequently alters their functional activities. Exhibits low-level editing at the GRIA2 Q/R site, but edits efficiently at the R/G site and HOTSPOT1. Does not affect polyomavirus replication but provides protection against virus-induced cytopathic effects. Essential for embryonic development and cell survival and plays a critical role in the maintenance of hematopoietic stem cells.</p> <p>[UniProtKB/Swiss-Prot Function]</p>