

Product datasheet for TP308907

DIS3 (NM_014953) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human DIS3 mitotic control homolog (<i>S. cerevisiae</i>) (DIS3), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208907 protein sequence Red=Cloning site Green=Tags(s)

MLKSKTFLKKTRAGGVMKIVREHYLRDDIGCGAPGCAACGGAHEGPALEPQPQDPASSVCPQPHYLLPDT
NVLLHQIDVLEDPAIRNVIVLQTVLQEVNRNSAPVYKRIRDVTNNQEKHFYFTFTNEHHRETYVEQEQQEN
ANDRNDRAIRVAAKWYNEHLKMSADNQLQVIFITNDRRNKEKAIEEGIPAFTCEEYVKSLTANPELIDR
LACLSEEGNEIESGKIIFSEHLPLSKLQQGKSGTYLQGTFRASRENYLEATVWIHGDNEENKEIILQGL
KHLNRAVHEDIVAVELLPKSQWVAPSSVWLHDEGQNEEDVEKEEERERMLKTAVSEKMLKPTGRVVGIIK
RNWRPYCGMLSKSDIKESRRHLFTPADKRIPRIETRQASTLEGRRIIVAIDGWPRNSRYPNGHFVRNL
GDVGEKETETEVLLLEHDVPHQPFQAVLSFLPKMPWSITEKDMKNREDLRHLICSVDPGCTDIDDAL
HCRELENGNLEVGVHIADVSHFIRPGNALDQESARRGTTVYLCEKRIDMVPPELLSSNLCSLKCDVDRLAF
SCIWEMNHNAEILKTKFTKSVINSKASLTAEALRIDSANMNDITTSLRGLNKLAKILKRRRIEKAL
TLSSPEVRFHMDSETHDPIDLQTKELRETNSMVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNYE
ILVKAARSRNLEIKTDTAKSLAESLDQAESPTFPYLNTLLRILATRCMMQAVYFCSGMDNDFHHYGLASP
IYHTFTSPIRRYADVIVHRLLAIVAIGADCTYPELTDKHKLADICKNLNFRHKMAQYAQRASVAFHTQLFF
KSKGIVSEEAYILFVRKNAIWLIPKYGLEGTVFFEEKDKPNPQLIYDDEIPSLKIEDTVFHVFDKVKVK
IMLDSSNLQHQQIRMSLVEPQIPGISIPTDTSNMDLNGPKKKKMKLGK

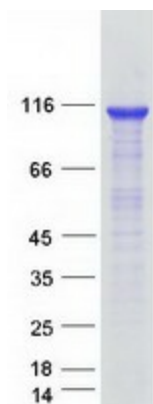
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	108.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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_055768
Locus ID:	22894
UniProt ID:	Q9Y2L1
RefSeq Size:	7589
Cytogenetics:	13q21.33
RefSeq ORF:	2874
Synonyms:	2810028N01Rik; dis3p; EXOSC11; KIAA1008; RRP44
Summary:	Putative catalytic component of the RNA exosome complex which has 3'→5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. DIS3 has both 3'-5' exonuclease and endonuclease activities.[UniProtKB/Swiss-Prot Function]
Protein Pathways:	RNA degradation

Product images:

Coomassie blue staining of purified DIS3 protein (Cat# TP308907). The protein was produced from HEK293T cells transfected with DIS3 cDNA clone (Cat# [RC208907]) using MegaTran 2.0 (Cat# [TT210002]).