

Product datasheet for PH308907

DIS3 (NM_014953) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DIS3 MS Standard C13 and N15-labeled recombinant protein (NP_055768)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208907
Predicted MW:	109.1 kDa
Protein Sequence:	>RC208907 protein sequence Red=Cloning site Green=Tags(s)

MLKSKTFLKKTRAGGVMKIVREHYLRDDIGCGAPGCAACGGAHEGPALEPQPQDPASSVCPQPHYLLPDT
NVLLHQIDVLEDPAIRNVIVLQTVLQEVNRNSAPVYKIRIDVTNNQEKHFYFTTNEHHRETYVEQEQQEN
ANDRNDRAIRVAKWYNEHLKKMSADNLQVIFITNDRRNKEKAIEEGIPAFTECEYVKSILTANPELIDR
LACLSEEGNEIESGKIIIFSEHLPLSKLQQGIKSGTYLQGTFRASRENYLEATVWIHGNEENKEIILQGL
KHLNRAVHEDIVAVELLPKSQWVAPSSVVLHDEGQNEEDVEKEEERERMLKTAVSEKMLKPTGRVVGIIK
RNWRPYCGMLSKSDIKESRRHLFTPADKRIPRIRIETROASTLEGRRIIVAIDGWPRNSRYPNGHFVRNL
GDVGEKETETEVLLLEHDVPHQPFQAVLSFLPKMPWSITEKDMKNREDLRHLCSVDPPGCTDIDDAL
HCRELENGNLEVGVIADVSHFIRPGNALDQESARRGTTVYLCEKRIDMVPELLSSNLCSLKCDVDRLAF
SCIWEMNHNAEILKTKFTKSVINSKASLTAEALRIDSANMNDITTSRGLNKLAKILKKRIIEKAL
TLSSPEVRFHMDSETHDPIDLQTKELRETNSMVEEFMLLANISVAKKIHEEFSEHALLRKHPAPPPSNEY
ILVKAARSRNLEIKTDTAKSLAESLDQAESPTFPYLNTLLRILATRCMMQAVYFCSGMDNDFHHYGLASP
IYTHFTSPIRRYADVIVHRLLAIGADCTYPELTDKHLADICKNLNFRHKMAQYAQRASVAFHTQLFF
KSKGIVSEEAYILFVRKNAIVLIPKYGLEGTVFVEEKDKPNPQLIYDDEIPSLKIEDTVFHVFDKVKVK
IMLDSSNLQHQQIRMSLVEPQIPGISIPTDTSNMDLNGPKKKKMKLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



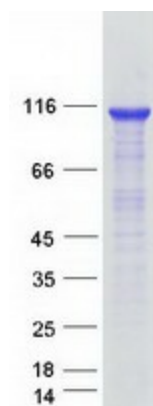
[View online »](#)

RefSeq:	NP_055768
RefSeq Size:	7589
RefSeq ORF:	2874
Synonyms:	2810028N01Rik; dis3p; EXOSC11; KIAA1008; RRP44
Locus ID:	22894
UniProt ID:	Q9Y2L1
Cytogenetics:	13q21.33

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]).