

Product datasheet for TP300726M

RRM1 (NM_001033) Human Recombinant Protein

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

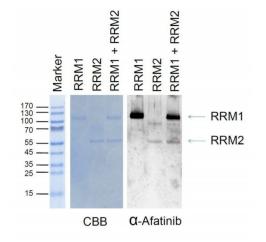
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ribonucleotide reductase M1 (RRM1), 100 μg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC200726 Blue=ORF Red=Cloning site Green=Tag(s)
	MHVIKRDGRQERVMFDKITSRIQKLCYGLNMDFVDPAQITMKVIQGLYSGVTTVELDTLAAETAATLTT KHPDYAILAARIAVSNLHKETKKVFSDVMEDLYNYINPHNGKHSPMVAKSTLDIVLANKDRLNSAIIYD RDFSYNYFGFKTLERSYLLKINGKVAERPQHMLMRVSVGIHKEDIDAAIETYNLLSERWFTHASPTLFN AGTNRPQLSSCFLLSMKDDSIEGIYDTLKQCALISKSAGGIGVAVSCIRATGSYIAGTNGNSNGLVPML RVYNNTARYVDQGGNKRPGAFAIYLEPWHLDIFEFLDLKKNTGKEEQRARDLFFALWIPDLFMKRVETN QDWSLMCPNECPGLDEVWGEEFEKLYASYEKQGRVRKVVKAQQLWYAIIESQTETGTPYMLYKDSCNRK SNQQNLGTIKCSNLCTEIVEYTSKDEVAVCNLASLALNMYVTSEHTYDFKKLAEVTKVVRNLNKIIDI NYYPVPEACLSNKRHRPIGIGVQGLADAFILMRYPFESAEAQLLNKQIFETIYYGALEASCDLAKEQGP YETYEGSPVSKGILQYDMWNVTPTDLWDWKVLKEKIAKYGIRNSLLIAPMPTASTAQILGNNESIEPYT SNIYTRRVLSGEFQIVNPHLLKDLTERGLWHEEMKNQIIACNGSIQSIPEIPDDLKQLYKTVWEISQKT VLKMAAERGAFIDQSQSLNIHIAEPNYGKLTSMHFYGWKQGLKTGMYYLRTRPAANPIQFTLNKEKLKD KEKVSKEEEKERNTAAMVCSLENRDECLMCGS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
	Recombinant protein using RC200726 also available, <u>TP300726</u>
Tag:	C-Myc/DDK
Predicted MW:	89.9 kDa
Concentration:	>0.05 μ g/ μ L 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
Bioactivity:	Binding assay (PMID: <u>29765556</u>)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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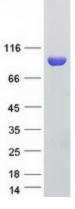
	RRM1 (NM_001033) Human Recombinant Protein – TP300726M
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 001024</u>
Locus ID:	6240
UniProt ID:	<u>P23921</u>
RefSeq Size:	3117
Cytogenetics:	11p15.4
RefSeq ORF:	2376
Synonyms:	R1; RIR1; RR1
Summary:	This gene encodes the large and catalytic subunit of ribonucleotide reductase, an enzyme essential for the conversion of ribonucleotides into deoxyribonucleotides. A pool of available deoxyribonucleotides is important for DNA replication during S phase of the cell cycle as well as multiple DNA repair processes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]
Protein Families:	Druggable Genome
Protein Pathways	: Glutathione metabolism, Metabolic pathways, Purine metabolism, Pyrimidine metabolism
Product imag	P2.

Product images:



Afatinib, a covalent inhibitor of ErbB family, modifies RRM1 and RRM2. Two ug recombinant RRM1 (OriGene [TP300726]) and/or 1 ug RRM2 in the presence of 12.5 uM afatinib were incubated for one hour at 37 C. The reaction product was examined by Coomassie blue G-250 staining and immunoblotting with anti-afatinib antiserum. Figure cited from Oncotarget, PMID: 29765556

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Coomassie blue staining of purified RRM1 protein (Cat# [TP300726]). The protein was produced from HEK293T cells transfected with RRM1 cDNA clone (Cat# [RC200726]) using MegaTran 2.0 (Cat# [TT210002]).

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