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Product datasheet for PH305718

RRM2 (NM_001034) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RRM2 MS Standard C13 and N15-labeled recombinant protein (NP_001025)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205718
Predicted MW:	44.7 kDa
Protein Sequence:	>RC205718 representing NM_001034 Red=Cloning site Green=Tags(s) MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTEPKTKAAAPGVEDE PLLRENPRRFVIFPIEYHDIWQMYKKAEASFWTAEEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGI VNENLVERFSQEVQITEARCFYGFQIAMENIHSEMYSLLIDTYIKDPKEREFLFNAIETMPCVKKKADWA LRWIGDKEATYGERVVAFAAVEGIFFSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHL VHKPSEERVREIIINAVRIEQEFLTEALPVKLIGMNCTLMKQYIEFVADRLMLELGFSKVFRVENPFDFM ENISLEGKTNFFEKRVGEYQRMGVMSSPTENSFTLDADF 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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.
RefSeq:	NP_001025
RefSeq Size:	2500
RefSeq ORF:	1167
Synonyms:	C2orf48; R2; RR2; RR2M
Locus ID:	6241

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UniProt ID: P31350

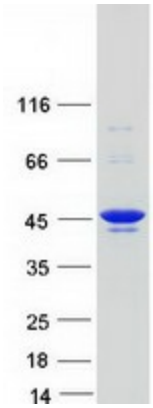
Cytogenetics: 2p25.1

Summary: This gene encodes one of two non-identical subunits for ribonucleotide reductase. This reductase catalyzes the formation of deoxyribonucleotides from ribonucleotides. Synthesis of the encoded protein (M2) is regulated in a cell-cycle dependent fashion. Transcription from this gene can initiate from alternative promoters, which results in two isoforms that differ in the lengths of their N-termini. Related pseudogenes have been identified on chromosomes 1 and X. [provided by RefSeq, Sep 2009]

Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism, Metabolic pathways, p53 signaling pathway, Purine metabolism, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified RRM2 protein (Cat# [TP305718]). The protein was produced from HEK293T cells transfected with RRM2 cDNA clone (Cat# [RC205718]) using MegaTran 2.0 (Cat# [TT210002]).