

Product datasheet for PH310340

p53R2 (RRM2B) (NM_015713) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RRM2B MS Standard C13 and N15-labeled recombinant protein (NP_056528)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210340
Predicted MW:	40.7 kDa
Protein Sequence:	>RC210340 protein sequence Red=Cloning site Green=Tags(s)
	MGDPERPEAAGLDQDERSSSDTNESEIKSNEEPLLRKSSRRFVIFPIQYPIWKMYKQAQASFWTAEEDV LSKDLPHWNKLKADEKYFISHILAFFAASDGI V NENLVERFSQEVQVPEARCFYGFQIL IENHSEMYSL LIDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRKSTFGERVVAF AAVEGVFFSGSFAAIFWLK RGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEERVREIIVDAVKIEQEFLTEALPVGLIGMNCI LMKQYIEFVADRLLVELGFSKVFQAENPFDFMENISLEGKTNFFEKRVSEYQRFVMAETTDNVFTLDAD F
	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.
RefSeq:	NP_056528
RefSeq Size:	4932
RefSeq ORF:	1053
Synonyms:	MTDPS8A; MTDPS8B; P53R2
Locus ID:	50484



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UniProt ID: [Q7LG56](#)

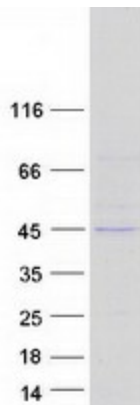
Cytogenetics: 8q22.3

Summary: This gene encodes the small subunit of a p53-inducible ribonucleotide reductase. This heterotetrameric enzyme catalyzes the conversion of ribonucleoside diphosphates to deoxyribonucleoside diphosphates. The product of this reaction is necessary for DNA synthesis. Mutations in this gene have been associated with autosomal recessive mitochondrial DNA depletion syndrome, autosomal dominant progressive external ophthalmoplegia-5, and mitochondrial neurogastrointestinal encephalopathy. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]

Protein Families: Druggable Genome, Transmembrane

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

Product images:



Coomassie blue staining of purified RRM2B protein (Cat# [TP310340]). The protein was produced from HEK293T cells transfected with RRM2B cDNA clone (Cat# [RC210340]) using MegaTran 2.0 (Cat# [TT210002]).