

Product datasheet for **AR50412PU-S**

TPRKB (1-175, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	TPRKB (1-175, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSQMQLTHQ LDFPECRVT LLLFKDKVNA GDLRRKAMEG TIDGSLINPT VIVDPFQILV AANKAVHLYK LGKMKTRTLS TEIIFNLSPN NNISEALKKF GISANDTSIL IVYIEEGEKQ INQEYLISQV EGHQVSLKLN PEIMNITEVK KIYKLSSQEE SIGTLLDAII CRMSTKDV L
Tag:	His-tag
Predicted MW:	22.2 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.15M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TPRKB protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001317315
Locus ID:	51002
UniProt ID:	Q9Y3C4 , Q9Y3C4-3
Cytogenetics:	2p13.1
Synonyms:	CGI-121; CGI121; GAMOS5



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Summary:

Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine (PubMed:22912744, PubMed:28805828). The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 (PubMed:22912744, PubMed:28805828). TPRKB acts as an allosteric effector that regulates the t(6)A activity of the complex. TPRKB is not required for tRNA modification (PubMed:22912744, PubMed:28805828).[UniProtKB/Swiss-Prot Function]

Product images: