

PRPS2 Protein, Human (HEK293, His)

Cat. No.:	HY-P71108
Synonyms:	Ribose-Phosphate Pyrophosphokinase 2; PPRibP; Phosphoribosyl Pyrophosphate Synthase II; PRS-II; PRPS2
Species:	Human
Source:	HEK293
Accession:	P11908 (P2-L318)
Gene ID:	5634
Molecular Weight:	Approximately 37.0 kDa

PROPERTIES

AA Sequence	<pre> PNIVLFSGSS HQDLSQRVAD RLGLELGKVV TKKFSNQETS VEIGESVRGE DVYIIQSGCG EINDNLMELL IMINACKIAS SSRVTAVIPC FPYARQDKKD KSRAPISAKL VANMLSVAGA DHIITMDLHA SQUIQGFFDIP VDNLYAEP AV LQWIRENIAE WKNCIIVSPD AGGAKRVTSI ADRLNVEFAL IHKERKKANE VDRMVLVGDV KDRVAI LVDD MADTCGTICH AADKLLSAGA TKVYAILTHG IFSGPAISR I NNAAFEAVVV TNTIPQEDKM KHCTKI QVID ISMILAEAIR RTHNGESVSY LFSHVPL </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Phosphoribosylpyrophosphate Synthetase 2 (PRPS2) is an enzyme crucial for nucleotide biosynthesis as it catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP). PRPP serves as a key precursor in the de novo biosynthesis of purine
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and pyrimidine nucleotides, essential for DNA and RNA synthesis. The enzymatic activity of PRPS2 involves the transfer of pyrophosphate from ATP to ribose 5-phosphate, forming PRPP. This reaction represents a critical step in the purine and pyrimidine salvage pathways, providing the necessary building blocks for cellular nucleotide pools. The role of PRPS2 in synthesizing PRPP underscores its significance in supporting fundamental cellular processes, including the maintenance of genetic material and cellular proliferation.

Caution: Product has not been fully validated for medical applications. For research use only.

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