

APT Protein, Streptococcus pyogenes serotype M1 (Baculovirus, His-Myc)

Cat. No.:	HY-P72047
Synonyms:	apt; SPy_0927; M5005_Spy0728Adenine phosphoribosyltransferase; APRT; EC 2.4.2.7
Species:	Others
Source:	Sf9 insect cells
Accession:	P63546 (M1-G172)
Gene ID:	/
Molecular Weight:	Approximately 22.7 kDa

PROPERTIES

AA Sequence	MDLTNYIASI KDYPKAGITF RDISPLMADG KAYSYAIREI AQYACDKDID MVVGPEARGF IIGCPVAVEL GIGFAPVRKP GKLPRDVVSA DYEKEYGLDT LTMHADAIKP GQRVLI VDDL LATGGTVKAT IEMIEKLGGI VAGCAFLIEL EGLNGRHAIR NYDYKVL MQF PG
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 solution of Tris-based buffer, 50% Glycerol.
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.
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	APT, also known as adenine phosphoribosyltransferase, plays a crucial role in a salvage reaction that enables the formation of AMP (adenosine monophosphate). This salvage pathway offers a more energetically efficient route for AMP synthesis compared to de novo synthesis. By catalyzing the transfer of a phosphoribosyl group from PRPP (5-phosphoribosyl-1-pyrophosphate) to adenine, APT contributes to the recycling and utilization of adenine nucleotides, ensuring their availability for various cellular processes. Understanding the precise mechanisms and regulation of APT-mediated salvage reactions can provide insights into nucleotide metabolism and the maintenance of cellular energy balance.
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Caution: Product has not been fully validated for medical applications. For research use only.

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