

## ARPT Protein, *S. pyogenes* serotype M1, Recombinant (His & Myc)

### General Information

Synonyms:	Adenine phosphoribosyltransferase;APRT;apt
Protein Construction:	1-172 aa
Species:	<i>Streptococcus pyogenes</i>
Expression Host:	<i>P. pastoris</i> (Yeast)
Accession:	P63546
Molecular Weight:	22.7 kDa (predicted)
AA Sequence:	MDLTNYIASIKDYKAGITFRDISPLMADGKAYSYAIREIAQYACDKDIDMVVGPEARFIIGCPVAVELGIGFA PVRKPGKLPDRVVSADYEKEYGLDTLTMHADAIAKPGQRVLIVDDLLATGGTVKATIEMIEKLGIVAGCAFLIEL EGLNGRHAIRNYDYKVLQMFPG

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Catalyzes a salvage reaction resulting in the formation of AMP, that is energetically less costly than de novo synthesis.

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