

## Albumin Protein, Macaca fascicularis, Recombinant (Yeast, His)

### General Information

Synonyms: Albumin;ALB

Protein Construction: 25-608 aa

Species: Cynomolgus

Expression Host: P. pastoris (Yeast)

Accession: A2V9Z4

Molecular Weight: 68.0 kDa (predicted)

AA Sequence: DTHKSEVAHRFKDLGEEHFKGLVLVAFSQYLQQCPFEEHVKLVNEVTEFAKTCVADESAENCDKSLHTLFGDK  
LCTVATLRETYGEMADCCAKQEPPERNECFLOHKDDNPNLPLVRPEVDVMCTAFHDNEATFLKKYLYEVARR  
HPYFYAPELLFFAARYKAAFAECCQAADKAAACLLPKLDELRLDEGKASSAKQRLKCASLQKFGDRAFKAWAVA  
RLSQKFPKAEFAEVSKLVTDLTKVHTECCHGDLLECADDRADLAKYMCENQDSISSKLKECCDKPILLEKSHCL  
AEVENDEMPADLP SLAADYVESKDVCKNYAEAKDVFGLMFLYFYARRHPDYSVM LLLRLAKAYEATLEKCCA  
AADPHECYAKVFDEFQPLVEEPQNLVKQNCSELFQ LGEYKFQNALLVRYTKKVPQVSTPTLVEVSRNLGKVG  
AKCKKLPEAKRMPCAEDYLSVVLNRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALELDEAYVPKAFNAETFT  
FHADMCTLSEKEKQVKKQTALVELVKHKPKATKEQLKGVMDNFAAFVEKCKKADDKEACFAEEGPKFVAAS  
QAALA

### 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/μg 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

Binds water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc. Major calcium and magnesium transporter in plasma, binds approximately 45% of circulating calcium and magnesium in plasma. Potentially has more than two calcium-binding sites and might additionally bind calcium in a non-specific manner. The shared binding site between zinc and calcium at residue Asp-273 suggests a crosstalk between zinc and calcium transport in the blood. The rank order of affinity is zinc > calcium > magnesium. Binds to the bacterial siderophore enterobactin and inhibits enterobactin-mediated iron uptake of E.coli from ferric transferrin, and may thereby limit the utilization of iron and growth of enteric bacteria such as E.coli. Does not prevent iron uptake by the bacterial siderophore aerobactin.

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