

Serum albumin Protein, Bovine, Recombinant (His & Myc)

General Information

Synonyms: ALB;Albumin;BSA

Protein Construction: 25-607 aa

Species: Bovine

Expression Host: P. pastoris (Yeast)

Accession: P02769

Molecular Weight: 70.1 kDa (predicted)

AA Sequence:

DTHKSEIAHRFKDLGEEHFKGLVLIAFSQYLQQCPFDEHVKLVNELTEFAKTCVADESHAGCEKSLHTLFGDEL
CKVASLRETYGDMADCCEKQEPERNECFLSHKDDSPDLPKLPDPNTLCDEFKADEKFFWGKLYEIAARRHP
YFYAPELLYYANKYNGVVFQEQEAEDKGACLLPKIETMREKVLASSARQRLRCASIQKFGERALKAWSVARLS
QKFKPAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKECCDKPILLEKSHCIAEVE
KDAIPENLPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRRRHPEYAVSVLLRLAKEYEATLEECCAADDPH
ACYSTVFDKLLKHLVDEPQNLKQNCQDFEKLGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKP
ESERMPCTEDYLSLILNRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALTPDETYVPKAFDEKLFTHADICTLP
DTEKQIKKQTALVELLKHKPKATEEQKTKVMENFVAFVDKCCAADDKEACFAVEGPKLVVSTQTALA

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: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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 (Probable). 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-272 suggests a crosstalk between zinc and calcium transport in the blood (Probable). The rank order of affinity is zinc > calcium > magnesium (Probable). Binds to the bacterial siderophore enterobactin and inhibits enterobactin-mediated iron uptake of E.coli, 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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