

Alkaline phosphatase/ALPI Protein, Human, Recombinant (His) V2

General Information

Synonyms: alkaline phosphatase, intestinal;IAP

Protein Construction: 20-503 aa

Species: Human

Expression Host: HEK293 Cells

Accession: P09923

Molecular Weight: 55.2 kDa (Predicted)

AA Sequence: VIPAEENPAFWNRQAAEALDAAKKLQPIQKVAKNLILFLGDGLGVPTVTATRILKGQKNGKLGPEPLAMDR
FPYLALSKTYNVDRQVPDSAATATAYLCGVKANFQTIGLSAAARFNQCNTTRGNEVISVMNRAKQAGKSVG
VVTTRVQHASPAGTYAHTVNRNWYSDADMPASARQEGCQDIATQLISNMDIDVILGGGRKYMFPMTGTPDP
EYPADASQNGIRLDGKNLVQEWLAKHQGAWYVWNRTELMQASLDQSVTHLMGLFEPGDTKYEIHRDPTLD
PSLMEMTEAALRLLSRNPRGFYLFVEGGRIDHGHHEGVAYQALTEAVMFDDAIERAGQLTSEEDTLTLVTADH
SHVFSFGGYTLRGSSIFGLAPSKAQDSKAYTSILYGNPGYVFNSGVRPDVNESESGSPDYQQAAVPLSSET
HGGEDVAVFARGPQAHLVHGVQEQSFVAHVMAFAACLEPYTACDLAPPACTTD

QC Testing

Biological Activity: Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 nmol p-nitro-phenylphosphate (pNPP), in 1 minute at 37°C, pH10.0. The specific activity is > 8836.463 U/mg.

Purity: > 95% as determined by SDS-PAGE.

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

Formulation: Lyophilized from a 0.2 μm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

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