

## Alkaline Phosphatase (Germ type)/ALPG Protein, Mouse, Recombinant (His)

## General Information

Synonyms:	Alkaline phosphatase 5;germ cell type;Alppl2;Embryonic alkaline phosphatase (EAP);Alpg; Embryonic-type alkaline phosphatase;Alkaline phosphatase, placental-like;Akp5;Alkaline phosphatase, germ cell type;Eap
Protein Construction:	19-502 aa
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P24823
Molecular Weight:	53.9 kDa (Predicted)
AA Sequence:	VIPVEENPAFWNRKAAEALDAAKCLKPIQTSAKNLVILMGDGMGVSTVTATRILKGQQQGHLPETQLAMD RFPHMALSKTYNTDKQIPDSAGTGTAFLCGVKTNMKVIGLSAAARFNQCNTTWGNEVVSVMHRAKKAGKSV GVVTTTSVQHASPAGTYAHTVNRGWYSDAQMPASALQDGCKDISTQLISNMDIDVILGGGRKFMFPKGTPD QEYPTDTKQAGTRLDGRNLVQEWLAKHQGARYVWNRSELIQASLNRSVTHLMGLFEPNDMKYEIHRDPAQ DPSLAEMTEVAVRMLSRNPKGFYLFVEGGRIDHGHETVAYRALTEAVMFDSDAVDKADKLTSEQDTMILVTA DSHVFSFGGYTQRGASIFGLAPFKAEDGKSFTSILYGNPGYKLNHNGARADVTEESSNPTYQQAAVPLS SETHSGEDVAIFARGPQAHLVHGVQEQNYIAHVMAFAACLEPYTDCGLASPAGQSS

## 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 >6000 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 PBS, 6% Trehalose, pH 7.4

## 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 &amp; 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.

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