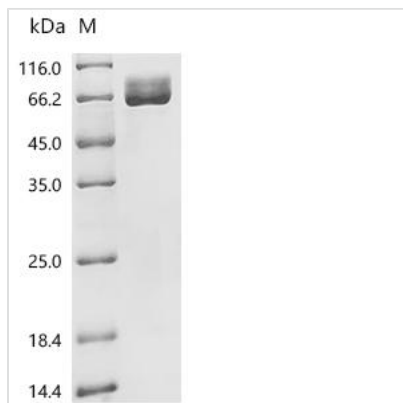




Recombinant Human Alkaline phosphatase, tissue-nonspecific isozyme (ALPL) (Active)

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|----------------------------|---|
| Product Code | CSB-MP001631HU |
| Abbreviation | Recombinant Human ALPL protein (Active) |
| Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| Uniprot No. | P05186 |
| Form | Lyophilized powder |
| Storage Buffer | Lyophilized from a 0.2 μm filtered PBS, 6% Trehalose, pH 7.4 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| 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, pH 10.0. The specific activity is >120000 pmol/min/ug. |
| Purity | ≥ 95% as determined by SDS-PAGE. |
| Sequence | LVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTA ARILKGGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVK ANEGTVGVSAATERSRCNTTQGNEVTSILRWAKDAGKSVGIVTTTRVNHATPS AAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMHNIRDIDVIMGGGRKMY PKNKTDVEYESDEKARGTRL DGLDLVDTWKSFKPRYKHSFIWNRT ELLTLDP HNVDYLLGLFEPGDMQYELNRNNTDPSLSEMVVVAIQILRKNPKGFFLLVEG GRIDHGHHEGKAKQALHEAVEMDRAIGQAGSLTSS EDTLT VVTADHSHVFTFG GYTPRGNSIFGLAPMLS DTDKPF TAILYGNPGYKVVGGERENVSMVDYAH NNYQAQSAVPLRHETHGGEDVAVFSKGPMALLHGVHEQNYVPHVMAYAAC IGANLGHCAPAS |
| Source | Mammalian cell |
| Target Names | ALPL |
| Expression Region | 18-501aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | C-terminal 10xHis-tagged |
| Mol. Weight | 54.7 kDa |
| Protein Length | Full Length of Mature Protein |
| Image | |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

| | | |
|--------------------------------|--|----------------|
| Enzyme | Human ALPL (CSB-MP001631HU) | 0.00625µg/well |
| Substrate | P-nitro-phenylphosphate (PNPP) (S0942, sigma) | 0.05mg/ml |
| Termination | 0.2mol/L NaOH | 50µl |
| Reaction system | / | 100µl |
| Reaction conditions | 37°C and 30min in dark | / |
| Buffer | 100 mM 2-amino-2-methyl-1,3-propanediole-HCl, 5 mM MgCl ₂ , pH 10.0 | / |
| Enzyme activity unit (U/mg) | >120000 U/mg | / |

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, pH 10.0. The specific activity is >120000 pmol/min/ug.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.