

# Recombinant secreted Placenta alkaline phosphatase 1, human, residues 23-511, mannitol buffer

  
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CAT No. UCA001

Batch 952

product specification sheet: PS-A001

0.25 mg

## Product description

Human placenta type alkaline phosphatase is a dimeric glycoprotein (N-linked glycans at asparagine residues 144 and 271). The protein is bound to the cell-membrane via a GPI-anchor which is linked to Aspartate 506.

|                      |  |
|----------------------|--|
| Reference sequences: | NM_001632<br>NP_001623<br>Swiss-prot P05187  |
| Alternative names:   | SEAP<br>Alkaline phosphatase Regan isozyme<br>Placental alkaline phosphatase 1<br>PLAP-1 |
| Gene ID:             | 250  |
| EC                   | 3.1.3.1  |

Amino acid residues 23-511 of human placenta type alkaline phosphatase were cloned, the protein was over-expressed and was purified to homogeneity (Figure 1). The cDNA coding for the recombinant protein does not contain the GPI-signal, resulting in a secreted, soluble form of placental alkaline phosphatase 1. The calculated molecular weight of recombinant secreted human PLAP-1 is 54.5 kDa. The protein contains a C-terminal hexahistidine tag. Each vial contains 0.25 mg recombinant secreted human PLAP-1 with a specific activity of >100 U/mg (determined with p-nitrophenylphosphate as a substrate in a glycine assay at 25 °C).

## Storage and stability

Recombinant secreted human PLAP-1 is sterile and should be stored at 4 °C (stable for at least 6 months). The buffer contains 5 mM Tris 2 mM MgCl<sub>2</sub> 0.05 mM ZnCl<sub>2</sub> 1% mannitol pH 8.0 without preservative. After opening it should be stored sterile in appropriate small aliquots at 4 °C.

### Lot specific characteristics:

|                    |            |
|--------------------|------------|
| Concentration:     | 0.66 mg/ml |
| Specific activity: | 114 U/mg   |

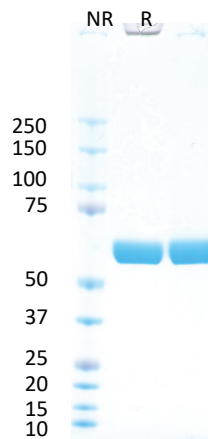


Figure 1.  
NuPage analysis of  
purified secreted PLAP-1  
NR: non-reduced sample  
R: Reduced sample

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