

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



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Catalog UCA001

Batch 952

product specification sheet: PS-A001

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 NP_001623 Swiss-prot P05187
Alternative names:	SEAP Alkaline phosphatase Regan isozyme Placental alkaline phosphatase 1 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 MgCl₂ 0.05 mM ZnCl₂ 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

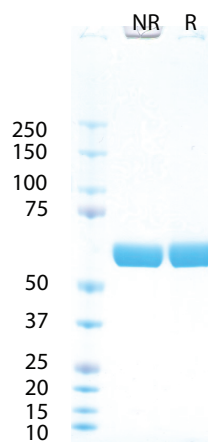


Figure 1.
NuPage analysis of
purified secreted PLAP-1
NR: non-reduced sample
R: Reduced sample

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