

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

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Catalog A001
Lot 5206

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 >80 U/mg (determined with p-nitrophenylphosphate as a substrate in a glycine assay at 20 °C).

Use, 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: 1.11 mg/ml
Volume: 284 µl
Amount: 0.275 mg
Specific activity: 89 U/mg

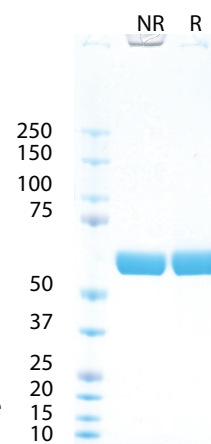


Figure 1.
NuPage analysis of
purified secreted PLAP-1
NR: non-reduced sample
R: Reduced sample

Production platform:

This product has been produced in HEK293 cells using the rPEX[®] recombinant protein production platform.

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The product is not for use in humans

The product can only be used for internal research and development

The product can not be used in any commercial activity (commercial use includes, but is not limited to, 1) preparation of growth media with the purpose of sale, 2) R&D activities for third parties)

The product can not be resold.

Please contact bd@immunoprecise.com to inquire about further information.

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