

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

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Catalog A002
Lot A0022

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 100 µg recombinant secreted human PLAP-1 with a specific activity of 82 U/mg (determined with p-nitrophenylphosphate as a substrate in a glycine assay).

Storage and stability

Recombinant secreted human PLAP-1 is sterile and should be stored at -20 °C (stable for at least 6 months). The buffer contains 5 mM tris 2 mM MgCl₂ 0.05 mM ZnCl₂ 50% glycerol pH 7.0 without preservative. After opening it should be stored sterile in appropriate small aliquots at -20 °C.

Lot specific characteristics:

Concentration:	1.17 mg/ml
Specific activity:	82 U/mg

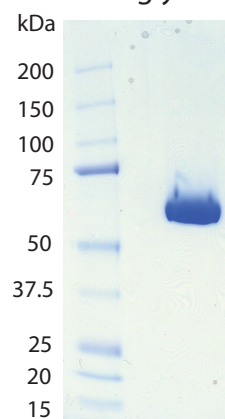


Figure 1.
NuPage analysis of
purified secreted PLAP-1

Production platform:

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

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

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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