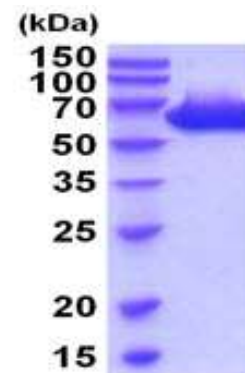


Alkaline phosphatase, placental, human recombinant

CATALOG NO:	P1044-10 10 µg P1044-50 50 µg
ALTERNATE NAMES:	ALPP, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1
CONCENTRATION:	0.5 mg/ml (determined by Absorbance at 280nm)
SOURCE:	Baculovirus
PURITY:	> 95% by SDS-PAGE
MOL. WEIGHT:	This protein is fused with 6x His tag at C terminus (23-506 aa) and the protein has a calculated MW of 53.9 kDa (118aa). The protein migrates at 50-70kDa in SDS-PAGE under reducing conditions.
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)
FORM:	Liquid
FORMULATION:	In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.
SEQUENCE:	ADLMIIPVEE ENPDFWNREA AEALGAAKKL QPAQTAAKNL IIFLGDGMGV STVTAARILK GQKKDKLGPE LPLAMDRFPY VALSKTYNVD KHVPDSGATA TAYLCGVKGN FQTIGLSAAA RFNQCNTTRG NEVISVMNRA KKAGKSVGVV TTTRVQHASP AGTYAHTVNR NWYSDADVPA SARQEGCQDI ATQLISNMDI DVLGGGRKY MFRMGTPDPE YPDDYSQGGT RLDGKNLVQE WLAKRQGARY VWNRTLMQA SLDPSVTHLM GLFEPGDMKY EIH RDSTLDP SLMEMTEAAL RLLSRNPRGF FLFVEGGRID HGHHESRAYR ALTETIMFDD AIERAGQLTS EEDTSLVTA DHSHVFSFGG YPLRGSSIFG LAPGKARDRK AYT VLLYGNG PGYVLKDGAR PDVTESESGS PEYRQQSAVP LDEETHAGED VAVFARGPQA HLVHGVQEQT FIAHVMAFAA CLEPYTACDL APPAGTTDHH HHHH

DESCRIPTION: ALPP, also known as alkaline phosphatase, placental, is a family of dimeric metalloenzymes catalyzing the hydrolysis of monoesters of phosphoric acid. Also, this protein catalyzes a transphosphorylation reaction in the presence of large concentrations of phosphate acceptors. It occurs widely in nature, and are found in many organisms from Escherichia coli to man. Most alkaline phosphatases are homodimeric enzymes and each catalytic site contains three metal ions (two Zn and one Mg), that are necessary for enzymatic activity. Recombinant human ALPP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

BIOLOGICAL ACTIVITY: Specific activity is > 2,500 units/mg, and is defined as the amount of enzyme that hydrolyzes 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.



15% SDS-PAGE (3µg)

Human recombinant Alkaline phosphatase, placental

RELATED PRODUCT:

- Alkaline Phosphatase Activity Colorimetric Assay Kit (**Cat. No. K412-500**)
- Alkaline Phosphatase Activity Fluorometric Assay Kit (**Cat. No. K422-500**)
- Proteinase K 20 mg/ml Solution (**Cat. No. 9211-5, -25**)
- Proteinase K, Recombinant (**Cat. No. 9210-100, -500, 1G, 10G**)
- Proteinase K Polyclonal Antibody (**Cat. No. 6210-100**)
- Alkaline Phosphatase, Calf Intestine (**Cat. No. 7585-10**)
- Shrimp Alkaline Phosphatase, Recombinant (**Cat. No. 9216-250**)

FOR RESEARCH USE ONLY! Not to be used on humans.