

Recombinant Human ALPP

Cat. No. ALPP-53H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Placental Alkaline Phosphatase encoding 154-287 amino acids expressed in <i>E.coli</i> .
Species	Human
Source	E.coli
ProteinLength	154-287 a.a.
Description	Placental alkaline phosphatase (PLAP) is a membrane-associated siaglycoprotein enzyme normally present at high concentration in syncytiotrophoblasts within the placenta during the third trimester of gestation. The expression of PLAP was originally thought to be restricted to term placenta but a human PLAP-like variant has been described which shares more than 85% homology with PLAP itself. PLAP is expressed only in normal term placenta, endocervix and fallopian tube and also in ovarian and proximal gastrointestinal tumors. It is also commonly expressed in germ cell tumors and more recently described in seminomas.
Physical Appearance	Sterile filtered liquid.
Formulation	PLAP at 100 µg/ml in 50 mM Tris-Acetate, pH7.5, 1 mM EDTA and 20% Glycerol.
Characterization	On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 41 kDa.

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Stability Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name [ALPP alkaline phosphatase, placental \(Regan isozyme\) \[Homo sapiens \]](#)

Synonyms ALPP; alkaline phosphatase, placental (Regan isozyme); ALP; PALP; PLAP; FLJ61142; Alkaline phosphatase, placental type; PLAP-1; Alkaline phosphatase Regan isozyme; EC 3.1.3.1; glycerophosphatase; placental alkaline phosphatase; alkaline phosphomonoesterase

Gene ID [250](#)

mRNA Refseq [NM_001632](#)

Protein Refseq [NP_001623](#)

UniProt ID [P05187](#)

Chromosome Location 2q37

MIM [171800](#)

Pathway Folate biosynthesis; Metabolic pathways; gamma-Hexachlorocyclohexane degradation

Function alkaline phosphatase activity; hydrolase activity; magnesium ion binding; zinc ion binding

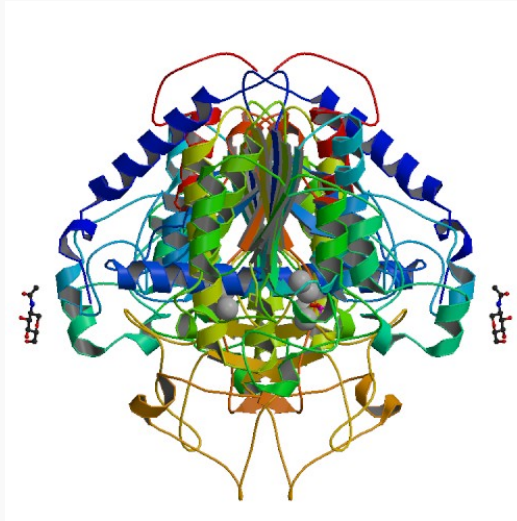
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