

Recombinant Human ALPP protein, T7/His-tagged

Cat. No. ALPP-221H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ALPP cDNA (23-506aa, derived from BC009647) fused with T7-His-TEV cleavage site Tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	23-506 a.a.
Form	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
AA Sequence	MASMTGGQQMGRGHHHHHHG NLYFQGGEFIIPVEEENPDFWNREAAEALGAAKKL QPAQTAAKNLIIFLDGGMGV STVTAARILKGQKKDKLGPEIPLAMDRFPYVALSKTYN VDKHVPDSGATATAYLCGVKGNFQTIGLSAAARFNQC NTTRGNEVISVMNRAKKAG KSVGVTTRVQHASPAGTYAHTVNRNWYS DADVPASARQEGCQDIATQLISNMDI DVILGGGRKYMFRMGTPDPEYPDDYSQGGTRLDGKNLVQEWLAKRQGARYVWNR TELMQASLDPSVTHLMGLFEP GDMKYEIHRDSTLDPSLMEMTEAALRLLSRNPRGF FLFVEGGRIDHGHESRAYRAL TETIMFDDAIERAGQLTS EEDTSLSLVTADHSHVFS FGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNGPGYVLKDGARPDVTESESGSPEY RQ QSAVPLDEETHAGEDVAVFARGPQAHLVHGVQEQT FIAHVMAFAACLEPYTAC DLAPPAGTTD
Purity	>90% by SDS-PAGE

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Applications

1. May be used for in vitro ALPP mediated Insulin-like growth factor (IGF) pathway regulation study in stem cell proliferation by coating this protein as matrix protein or use it as soluble factor. 2. May be used for protein-protein interaction mapping. 3. As enzymatic substrate for various proteases. 4. Potential biomarker protein for tumor diagnosis, such as ovarian cancer, et al. 5. As immunogen for specific antibody production.

Storage

Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 7 days.

GENE INFORMATION

Gene Name

ALPP alkaline phosphatase, placental [Homo sapiens]

Official Symbol

ALPP

Synonyms

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

Gene ID

250

mRNA Refseq

NM_001632

Protein Refseq

NP_001623

MIM

171800

UniProt ID

P05187

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Chromosome Location	2q37.1
Pathway	Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	alkaline phosphatase activity; alkaline phosphatase activity; hydrolase activity; metal ion binding;

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