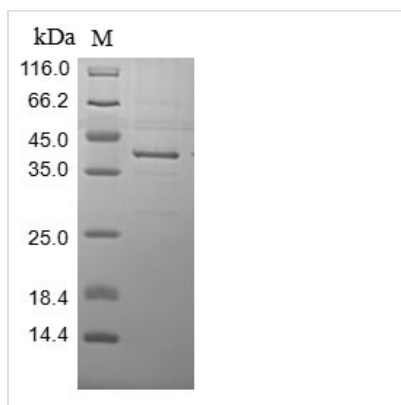




Recombinant Human Alkaline phosphatase, placental type (ALPP), partial

Product Code	CSB-BP001632HU1
Relevance	In most mammals there are four different isozymes: placental, placental-like, intestinal and tissue non-specific (liver/bone/kidney).
Abbreviation	Recombinant Human ALPP protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P05187
Storage Buffer	Tris-based buffer, 50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	TATAYLCGVKGNFQTIGLSAAARFNQCNTTRGNEVISVMNRAKKAGKSGVGVVT TTRVQHASPAGTYAHTVNRNWYSDADVPASARQEGCQDIATQLISNMDIDVIL GGGRKYMFRMGTPDPEYPDDYSQGGTRLDGKNLVQEWLAKRQGARYVWN RTELMQASLDPSVTHLMGLFEPGDMKYEIHRDSTLDPSLMEMTEAALRLLSRN PRGFFLFVEGGRIDHGHESRAYRALTTETIMFDDAIERAGQLTSEEDTLISLVTA DHSVFSFGGYPLRGSSIFGLAPGKARDRKAYTVLLYGNGPGYVLKDGARPD VTESESGSPEYRQQSAV
Source	Baculovirus
Target Names	ALPP
Protein Names	Alkaline phosphatase Regan isozyme Placental alkaline phosphatase 1 Short name: PLAP-1 PLAP
Expression Region	117-447aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	38.9 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant human ALPP protein is encoded by a recombinant DNA that was cloned into the expression vector and then transformed into the Baculovirus that supports the expression of the gene. The recombinant DNA was constructed by fusing the N-terminal 10xHis tag gene to the gene fragment coding for the 117-447aa of the human ALPP protein. After purification, the product is the recombinant human ALPP protein. This recombinant ALPP protein was subjected to the SDS-PAGE determination. Its purity reaches over 85% evaluated by BandsScan software analysis combined with SAS-PAGE. This ALPP protein ran to the molecular weight of about 40 kDa under SDS-PAGE condition.

ALPP (or PLAP) protein is an allosteric enzyme encoded by the ALPP gene. ALPP belongs to a multigene family composed of four alkaline phosphatase isoenzymes. ALPP is a membrane-bound glycosylated dimeric enzyme, which is mainly presented on the placental and endometrial tissue. It usually functions as a homodimer. At present, the ALPP protein has been discovered involvement in coronavirus biology, which is relevant for disease process. As identified tumor target, ALPP participates in the progress of tumors like seminoma and ovarian cancer.

Shelf Life

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