

Alkaline Phosphatase Active Protein | ALPI active protein

Alkaline Phosphatase (CIP/CIAP), Calf Intestinal

CATALOG #
AAA11487

PRODUCT SYNONYMS

Alkaline Phosphatase; Alkaline Phosphatase (CIP/CIAP); Calf Intestinal; Alk Phos; CIP; CIAP; ALP; Orthophosphoric-Monoester Phosphohydrolase; Calf Intestinal - Lyophilized; ALPI active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Purified
Form/Format	Lyophilized powder with magnesium chloride.
Sequence Length	524
Source	Calf Intestines
EC Number	3.1.3.1
Unit Definition	One unit will convert on micromole of p-nitrophenylphosphate to p-nitrophenol and phosphate per minute at 37 degree C in the presence of AMP (2-amino-2-methyl-1-propanol) at pH 10.25 and 37 degree C.
Specific Activity	1390 units/mg protein
Appearance	Tan powder
Solubility	Clear, colorless in 1 mg/mL saline.
Protein	0.48 mg protein/mg (Coomassie)
Contaminants	Ammonia: <0.1 micromole/mg
CAS Number	9001-78-9
Activity	660 Units/mg (Dimension Clinical Chemistry System)
Reconstitution	Tris buffered saline with 1 mM magnesium chloride, 0.2mM zinc chloride, and 1% BSA, pH8.0
Preparation and Storage	Aliquot and freeze at -20 degree C after reconstitution. Avoid freeze thaw cycles. Note: Protect from moisture Advice: Reconstitute into provided container and centrifuge to ensure full recovery. Handling: Handle as a potentially hazardous substance.

ADDITIONAL INFORMATION

Related Product Information for ALPI active protein	We are the leading producer of Calf Intestine Alkaline Phosphatase (CIAP, ALP, ALKP) for research. Custom preparations, technical support, bulk quantities and aliquoting available. Alkaline Phosphatase (ALP) is a hydrolase enzyme responsible for removing phosphate groups in the 5- and 3-positions from many types of molecules, including nucleotides, proteins, and alkaloids. In humans, alkaline phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta.
Product Categories/Family for ALPI active protein	Proteins ; Antigens ; Enzymes ; Standards/controls ; Native Proteins ; Alkaline Phosphatase (cip/ciap)

NCBI AND UNIPROT INFORMATION

NCBI GI #	110350019
NCBI GeneID	727689
NCBI Accession #	NP_001036028.1
NCBI GenBank Nucleotide #	NM_001042563.1
NCBI Official Full Name	alkaline phosphatase, tissue-nonspecific isozyme
NCBI Official Symbol	ALPL
NCBI Protein Information	alkaline phosphatase, tissue-nonspecific isozyme; TNSALP; AP-TNAP; alkaline phosphatase liver/bone/kidney isozyme
UniProt Protein Name	Alkaline phosphatase, tissue-nonspecific isozyme
UniProt Gene Name	ALPL
UniProt Synonym Gene Names	AP-TNAP; TNSALP
UniProt Entry Name	PPBT_FELCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/alpi-active-protein/alkaline-phosphatase/11487>