

Alkaline Phosphatase Active Protein | ALP active protein

Alkaline Phosphatase (ALP), Porcine Kidney

CATALOG #
AAA11489

PRODUCT SYNONYMS

Alkaline Phosphatase; Alkaline Phosphatase (ALP); Porcine Kidney; ALP; Alk Phos.; ALP active protein

PRODUCT SPECIFICATIONS

Form/Format	Lyophilized from tris-chloride buffer, with magnesium chloride and zinc chloride, pH 8.0
Sequence Length	524
Source	Porcine Kidney
Appearance	Tan powder
EC Number	3.1.3.1
Unit Definition	One unit catalyzes the hydrolysis of one micromole of p-nitrophenyl phosphate per minute at 37°C and pH 10.35 in the presence of 2-amino-2-methyl-1-propanol.
Specific Activity	110 units/mg protein (Coomassie)
Solubility	Clear, tan solution in 1 mg/mL saline.
Recertification	06-02-2024
Protein	0.78mg protein/mg(Coomassie)
Contaminants	gGT: <2% AST/SGOT <1% LDH <0.1%
Ammonia	<=0.1 umol/mg
CAS Number	9001-78-9
Activity	52 units/mg(Dimension Clinical Chemistry System)
Advice	Reconstitute into provided container and centrifuge to ensure full recovery.
Handling	Handle as a potentially hazardous substance.
Preparation and Storage	Storage: -20°C Storage Note: Protect from moisture Shipping Note: Cold packs Aliquot and freeze at -20°C after reconstitution.

ADDITIONAL INFORMATION

Related Product Information for ALP active protein	We are the leading producer of porcine kidney Alkaline Phosphatase (ALP) for research, life science and manufacturing. Custom preparations, technical support, bulk quantities and aliquoting available. Alkaline Phosphatase 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. The optimal pH for the enzyme activity is 10.0 in standard conditions.
Product Categories/Family for ALP active protein	Proteins; Antigens; Enzymes; Standards/controls; Native Proteins; Alkaline Phosphatase (alp)

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/alp-active-protein/alkaline-phosphatase/11489>