

Alkaline Phosphatase, Calf Intestine

CATALOG #:	7585-10	10 µg
	7585-50	50 µg
	7585-1000	1 mg
ALTERNATE NAMES:	ALP-1, ALPPL2, ALPPL, ALPP, ALP, PALP, PLAP, PLAP-1.	
SOURCE:	Calf Intestine	
PURITY:	≥ 98%	
MOL. WEIGHT:	13 kDa	
FORM:	Freeze dried powder	

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in distilled water or dilute buffer. Do not vortex. It is recommended to store it at -20°C.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION: 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. The optimal pH for the enzyme activity is pH 10 in standard conditions. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2 while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme, also referred to as the heat stable form that is expressed primarily in the placenta although it is closely related to the intestinal form of the enzyme as well as to the placental-like form. The coding sequence for this form of alkaline phosphatase is unique in that the 3' untranslated region contains multiple copies of an Alu family repeat. In addition, this gene is polymorphic and three common alleles (type 1, type 2 and type 3) for this form of alkaline phosphatase have been well characterized.

ACTIVITY: 1,500-2,500 U/mg protein

RELATED PRODUCTS:

- Alkaline Phosphatase Activity Colorimetric Assay Kit (**Cat # K412-500**)
- Alkaline Phosphatase Activity Fluorometric Assay Kit (**Cat # K422-500**)
- Proteinase K 20 mg/ml Solution (**Cat # 9211-5, -25**)
- Proteinase K, Recombinant (**Cat # 9210-100, -500, 1G, 10G**)
- Proteinase K Polyclonal Antibody (**Cat # 6210-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.