OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

BA026 Native Calf Alkaline Phosphatase -Purified

Alternate names: Intestinal alkaline phosphatase

Quantity: 5 mg

Concentration: 18.0 mg/ml

Background: Alkaline phosphatase (ALP) removes phosphate groups from the 5' end of DNA and RNA, and from proteins, at high pH. Most mammals have 4 different isozymes: placental, placental like, intestinal and non tissue specific (found in liver, kidney and bone). Tissues with particularly high concentrations of ALP include the liver, bile ducts, placenta, and bone. Damaged or diseased tissue releases enzymes into the blood, so serum ALP measurements can be abnormal in many conditions, including bone disease and liver disease.

Uniprot ID: P19111

NCBI: 9913

Species: Bovine

Source: Intestine, (Calf)

Format: **State:** Lyophilized purified protein.
Buffer System: 70% Ammonium Sulphate.
Reconstitution: Restore with sterile DI water or dilute buffer.

Applications: ELISA.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: Purified AP from calf intestine.
Biological Activity: Free of endonuclease, exonuclease and RNase activities.
1 unit liberates 1 µmole of p-nitrophenol per minute at 37°C and pH 9.8 in DEA buffer. Activity is determined by measuring the increase in the optical density at 405 nm resulting from the hydrolysis of p-nitrophenyl phosphate.
Specific Activity: 4600 U/mg protein
Molecular weight: 110-150 kD

Storage: Store the protein undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: one year from despatch.

General Readings:
1. Winkelman, J. et al. (1972) Am. J. Clin. Pathol. 57(5), 625.