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ALPP
Native Human Alkaline Phosphatase, Placental

Catalog No.	CSI10374A CSI10374B	**Quantity:**	100 U 1000 U

Alternate Names: Alkaline phosphatase, placental type, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1

Description: Alkaline phosphatase (ALP) 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 calf intestine Alkaline phosphatase (ALP) enzyme activity is pH 10 in standard conditions.

Alkaline phosphatase (ALP) is used in the detection of hepatobiliary disease, bone disease and biliary tree and intrahepatic obstruction. An alkaline phosphatase (ALP) test may also be used to evaluate the liver when medications are taken that can damage the liver. Alkaline Phosphatase (ALP) levels can be used to monitor the effectiveness of treatment for Paget's disease.

UniProt ID: P05187

Source: Human Placenta

Lyophilized from a solution of Tris-HCl, $MgCl_2$, $ZnCl_2$, pH 7.4

Protein: $\geq$ 0.1 mg protein/mg (Coomassie)

Biological Activity: Using the Siemens Dimension® Clinical Chemistry System, One unit will catalyze the hydrolysis of one micromole of p-nitrophenyl phosphate per minute at 37°C and pH 10.4 in glycine buffer.

Specific Activity: $\geq$ 10 U/mg, typically $\geq$ 25 U/mg protein

Reconstitution: Use Tris-buffered saline (TBS) containing 10 mg/ml BSA, 1 mM $MgCl_2$, 0.2 mM $ZnCl_2$, pH 8.0 to prepare a concentration of 1-10 mg/ml. Store aliquots of the stock solution at -20° C to -80°C. **Avoid repeated freeze/thaw cycles.**

Storage & Stability: Store lyophilized protein at -20°C to -80°C. Stable for at least 1 year.

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com