



## Native Bovine Liver Alkaline Phosphatase

### Product Information

<b>Cat#</b>	NATE-1871
<b>Similar</b>	ALP
<b>Species</b>	Bovine
<b>Source</b>	Bovine Liver
<b>Description</b>	<p>Alkaline phosphatases (APs) are highly ubiquitous enzymes, present in all species from bacteria to man. In humans, APs are encoded by a multi-gene family composed of four loci; i.e., tissue-nonspecific AP, also called bone/liver/kidney AP, intestinal. The sequence and complexity of the AP genes from other vertebrates and lower species are now being elucidated. The biological function of AP isozymes is still unknown. In vitro, the enzymes behave as phosphotransferases at neutral pH. The use of phosphate acceptor molecules (diethanolamine, tris, 2-amino-2-methyl-1-propanol) in the buffered substrate solutions increases the reaction rates and, thus, the sensitivity of assays based on AP determinations.</p>
<b>Form</b>	Freeze-dried powder
<b>Enzyme Commission Number</b>	EC 3.1.3.1
<b>Activity</b>	100 U/mg protein
<b>CAS No.</b>	9001-78-9
<b>Unit Definition</b>	The amount of enzyme which liberates one micromole of p-nitrophenol from p-nitrophenyl-phosphate per minute at 37°C, pH 9.8 in diethanolamine buffer.
<b>Storage</b>	Store at -20° C
<b>Synonyms</b>	Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase; Glycerophosphatase; Phosphomonoesterase
<b>Solubility</b>	Distilled water or dilute buffer



**Creative Enzymes**

*Diagnostic Enzymes*

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**Reaction**

CTP + phosphocholine = diphosphate + CDP-choline

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**Notes**

Since this product needs to be freshly prepared, it will take about 2 weeks after you confirm the order. Each time of the freeze-thawing may cause partial inactivation. Therefore, it should be dispensed as required and stored at -20 ° C or lower. With the preservation of the extension of time, the enzyme activity will decline to a certain extent, so the product should be used as soon as possible. This product may have turbidity or precipitation in the production and preservation process, it can be mixed after melting and will not affect the normal use. This product is limited to scientific research use, shall not be used for clinical diagnosis or treatment, shall not be used for food or medicine, shall not be stored in ordinary residential. For your safety and health, please wear an experimental suit and wear disposable gloves.

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