

Product Data Sheet

Cat # RP-1468

Horseradish Peroxidase

**Size:** 200 ug

**Source:** *Calf Intestine* The Alkaline Phosphatase is purified by affinity chromatography, which results in an enzyme of high specific activity and purity. Alkaline Phosphatase is Dimeric protein having a molecular weight of 140 kDa, one Zn<sup>++</sup> ion is tightly bound to each subunit, and another less tightly bound is involved in the catalytic reaction. Mg<sup>++</sup> stimulates the catalysis. The binding site for Mg<sup>++</sup> is different to that of Zn<sup>++</sup>, but will be occupied by excess Zn<sup>++</sup> followed by loss of enzyme activity. 50% glycerol, 5mM MgCl<sub>2</sub>, 0.1mM ZnCl<sub>2</sub> and 5mM TRIS, pH 7.0.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

RP-1468

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**Applications and Suggested Dilutions:** 95% pure by Gel Filtration. Activity: >1500 U/mg (pH 9.6, 37°C and 0.025M glycine, 10% glycerol as buffer). Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** AP although stable at 14°C for 1 weeks, should be stored at 4°C. **Please Do-Not freeze.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

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