

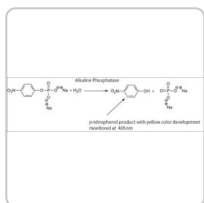
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## Documents

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**P4252** ▶ **Sigma-Aldrich.**

# Phosphatase, Alkaline from *Escherichia coli*

★★★★★ (0)

ammonium sulfate suspension, 30-90 units/mg protein (modified Warburg-Christian, in glycine buffer)

## Synonyme(s):

Orthophosphoric-monoester phosphohydrolase (alkaline optimum)

Numéro CAS: **9001-78-9**Numéro EC: **232-631-4**

eCl@ss: 42010105

Numéro de classification  
(Commission des enzymes):**3.1.3.1 (BRENDA, IUBMB)**

Numéro MDL:

**MFCD00131849**

NACRES:

NA.54

| Référence   | Conditionnement | Disponibilité                                                       | Prix       | Quantité                                                                                                                          |
|-------------|-----------------|---------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| P4252-100UN | 100 UNITS       | ✓ Only 1 left in stock (more on the way) <a href="#">Détails...</a> | 296,00 €   | <input type="text" value="1"/> <input type="button" value="−"/> <input type="button" value="+"/> <input type="button" value="i"/> |
| P4252-200UN | 200 UNITS       | ✓ Only 5 left in stock (more on the way) <a href="#">Détails...</a> | 628,00 €   | <input type="text" value="1"/> <input type="button" value="−"/> <input type="button" value="+"/> <input type="button" value="i"/> |
| P4252-1KU   | 1000 UNITS      | ✓ Only 3 left in stock (more on the way) <a href="#">Détails...</a> | 1 500,00 € | <input type="text" value="1"/> <input type="button" value="−"/> <input type="button" value="+"/> <input type="button" value="i"/> |

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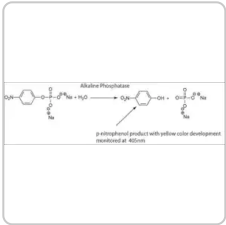
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PRODUITS RECOMMANDÉS

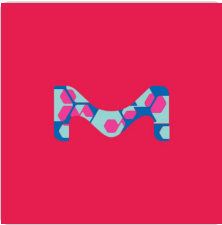


Sigma-Aldrich

P5931

Phosphatase, Alkaline from *Escherichia coli*  
lyophilized powder, 30-60 units/mg protein (in glycine buffer)

Consulter le prix et la disponibilité



Sigma-Aldrich

P4439

Phosphatase, Alkaline from porcine kidney  
lyophilized powder, ≥100 DEA units/mg protein

Consulter le prix et la disponibilité

PROPRIÉTÉS

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| Source biologique | <i>Escherichia coli</i>                                                |
| Niveau de qualité | 300                                                                    |
| Forme             | ammonium sulfate suspension                                            |
| specific activity | 30-90 units/mg protein (modified Warburg-Christian, in glycine buffer) |
| Temp. de stockage | 2-8°C                                                                  |

Vous recherchez des produits similaires ? Visit [Guide de comparaison des produits](#)

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## DESCRIPTION

### Application

Alkaline phosphatase is used for conjugation to antibodies and other proteins for ELISA, Western blotting, and histochemical detection. It may be used for protein labeling when high sensitivity is required. Product P4252 has been used for bulk digestion of tRNA. Product P4252 is provided in the ratio of 30-90 units/mg of protein.

Alkaline phosphatase is used for conjugation to antibodies and other proteins for ELISA, Western blotting, and histochemical detection. It may be used for protein labeling when high sensitivity is required. Product P4252 is an ammonium sulfate suspension in glycine buffer.

### Conditionnement

100, 200, 1000 units in glass bottle

### Actions biochimiques/physiologiques

Alkaline phosphatase, from *Escherichia coli*, is a dimeric, non-glycosylated protein which mainly reside in the periplasmic space. Three known isoforms exist. The enzyme requires zinc, and is activated by magnesium. *E. coli* alkaline phosphatase has a broad specificity for phosphate esters.

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### Attention

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One unit will hydrolyze 1.0  $\mu$ mole of *p*-nitrophenyl phosphate per min at pH 10.4 at 37 °C.

**Forme physique**

Suspension in 2.5 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

**Remarque sur l'analyse**

The activity at pH 8.0 at 25 °C is approximately the same as at pH 10.4 at 37 °C.

---

## PRODUITS APPARENTÉS

### Inhibiteur

**D6518**

Diethylenetriaminepentaacetic acid, ≥99% (titration)

[View Pricing](#)**P9375**

1,10-Phenanthroline monohydrate, reagent grade

[View Pricing](#)**E4378**

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[GET YOURS HERE](#)**ED2SS**

Ethylenediaminetetraacetic acid disodium salt dihydrate, reagent grade, 98.5-101.5% (titration)

[View Pricing](#)**Substrat****M3168**

4-Methylumbelliferyl phosphate (4-MUP) Liquid Substrate System, liquid

[View Pricing](#)**N2770**

SIGMAFAST™ p-Nitrophenyl phosphate Tablets, tablet, To prepare 20 mL

[View Pricing](#)**N1891**

SIGMAFAST™ p-Nitrophenyl phosphate Tablets, tablet, To prepare 5 mL

[View Pricing](#)

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11 - Combustible Solids

**WGK**

WGK 3

**Flash Point(F)**

Not applicable

**Point d'éclair C**

Not applicable

**Équipement de protection individuelle**

Eyeshields, Gloves, type N95 (US)

## DOCUMENTATION

**Certificat d'analyse**

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

**Comment saisir un numéro de lot (COA)****Rechercher****Certificat d'origine**

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

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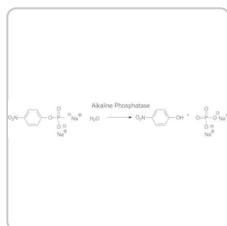
Rechercher

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Enzyme Explorer

FDS

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ



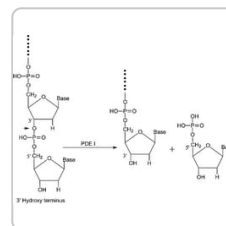
Sigma-Aldrich

**P5521**

Phosphatase, Alkaline from bovine intestinal mucosa

≥2,000 DEA units/mg protein

Consulter le prix et la disponibilité



Sigma-Aldrich

**P3243**

Phosphodiesterase I from *Crotalus adamanteus* venom

vial of ≥100 units, Purified

Consulter le prix et la disponibilité

## ARTICLES REVUS PAR DES PAIRS

Longitudinal and Vertical Variations of Dissolved Labile Phosphoric Monoesters and Diesters in the Subtropical North Pacific.

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### The universal YrdC/Sua5 family is required for the formation of threonylcarbamoyladenosine in tRNA

**Basma El Yacoubi, Benjamin Lyons, et al.**  
*RNA*, 37, 2894-2909 (2009)

---

### A method for the transient inhibition of toxicity of secretory recombinant proteins, exemplified by bacterial alkaline phosphatase. Novel protocol for problematic DNA termini dephosphorylation.

**Natalia Krawczun et al.**  
*MethodsX*, 8, 101340-101340 (2021-08-26)

Genes encoding proteins 'toxic' to recombinant host are difficult for cloning/expression and recombinant clones are unstable. Even tightly controlled inducible T7-lac, PBAD, PL, PR promoters are not totally silent in an uninduced state and thus not adequate for highly toxic

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### E. coli Alkaline Phosphatase

**1.Reid, T., and Wilson**  
*The Enzymes*, 4, 373-373 (1971)

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### Alkaline phosphatase from *Thermotoga neapolitana*.

**A Savchenko et al.**  
*Methods in enzymology*, 331, 298-305 (2001-03-27)

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## PROTOCOLES ET ARTICLES SCIENTIFIQUES

### Articles



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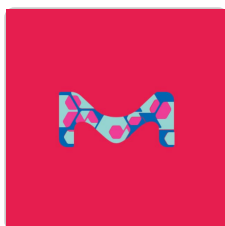
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## PRODUITS CONSULTÉS RÉCEMMENT



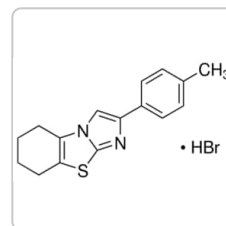
Sigma-Aldrich

**P4244**

**Phosphate buffered saline**

Autoclaved, pH 7.2 (25 °C)

Consulter le prix et la disponibilité



Sigma-Aldrich

**P4236**

**Cyclic Pifithrin-α hydrobromide**

≥98% (HPLC)

Consulter le prix et la disponibilité

## Évaluations



Soyez le premier à donner votre avis sur ce produit

## Questions

Soyez le premier à poser une question

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