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Saisir le nom du produit, le numéro de lot, etc.

Toutes les photos (3)

P3627 ▶ Sigma-Aldrich®

Phosphatase, Acid from wheat germ

(0)

≥0.4 unit/mg solid

Synonyme(s):
(Orthophosphoric-monoester phosphohydrolase [acid optimum]), Acid Phosphatase from wheat germ

Numéro CAS:	9001-77-8	**Numéro de classification (Commission des enzymes):**	3.1.3.2 (BRENDA, IUBMB)
Numéro EC:	232-630-9	**Numéro MDL:**	MFCD00131847
eCl@ss:	42010102	**NACRES:**	NA.54

Documents

- FDS
- COO/COA
- Fiche des caractéristiques

Plus de documents »

Référence	Conditionnement	Disponibilité		Prix	Quantité
P3627-1G	1 G	Only 5 left in stock (more on the way)	Détails...	188,00 €	− +
P3627-5G	5 G	Only 4 left in stock (more on the way)	Détails...	560,00 €	− +
P3627-10G	10 G	Disponible pour expédition le 10 octobre 2022	Détails...	1 010,00 €	− +

Demander une commande en gros

Ajouter au panier

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PRODUITS RECOMMANDÉS

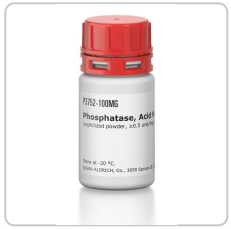
Sigma-Aldrich

P1146

Phosphatase, Acid from potato

lyophilized powder, ≥3.0 units/mg solid

Consulter le prix et la disponibilité



Sigma-Aldrich

P3752

Phosphatase, Acid from potato

lyophilized powder, ≥0.5 unit/mg solid

Consulter le prix et la disponibilité

PROPRIÉTÉS

Forme	powder
Niveau de qualité	300
specific activity	≥0.4 unit/mg solid
Poids mol.	58 kDa by gel filtration
Temp. de stockage	−20°C

Vous recherchez des produits similaires ? Visit **Guide de comparaison des produits**

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Application

Acid phosphatase (APase) non-specifically catalyzes the hydrolysis of monoesters and anhydrides of phosphoric acid to produce inorganic phosphate. It is used to study the production, transport, and recycling of phosphate and the metabolic and energy transduction processes of the cell. Product P3627 is from wheat germ and has been used to determine the effect of phosphatase treatment on 3F3/2 staining.

Conditionnement

1, 5, 10 g in poly bottle

Actions biochimiques/physiologiques

Plant acid phosphatase (APase) is localized in cytosol, vacuoles, and cell walls. Plant acid phosphatase is important for phosphate acquisition to mobilize organic phosphates in the soil. Phosphate starvation induces acid phosphatase generation. Acid phosphatase originates from the aleurone and scutellar tissues during germination. It hydrolyzes phytins, ATP, protein phosphates and nucleotide phosphates. It has a role in general metabolic reactions. Wheat embryo APase consists of four isoenzymes. The molecular mass of wheat germ APase is 58 kDa (gel filtration), the pH Optimum is 5.7, the pH Range is 4.0–7.0 and the optimal temperature is 45 °C.

Qualité

Contains lipase

Définition de l'unité

One unit will hydrolyze 1.0 µmole of *p*-nitrophenyl phosphate per min at pH 4.8 at 37 °C.

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INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage
13 - Non 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

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e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

Fiches Techniques

Data Sheet - P3627

Plus De Documents

Enzyme Explorer
FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

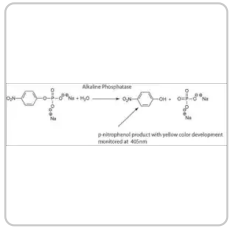
Sigma-Aldrich

CS0740

Acid phosphatase Assay Kit

kit sufficient for 1,000 assays (multiwell plates), kit sufficient for 100 assassays (tubes)

Consulter le prix et la disponibilité



Sigma-Aldrich

P5931

Phosphatase, Alkaline from *Escherichia coli*

lyophilized powder, 30-60 units/mg protein (in glycine buffer)

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Plant PIP2-dependent phospholipase D activity is regulated by phosphorylation.

Zuzana Novotná et al.
FEBS letters, 554(1-2), 50-54 (2003-11-05)

Phospholipase D (PLD) forms the major family of phospholipases that was first discovered and cloned in plants. In this report we have shown, for the first time, that C2 phosphatidylinositol-4,5-bisphosphate (PIP2)-dependent PLD(s) from 5 day hypocotyls of Brassica oleracea associated

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The maize homologue of the cell cycle checkpoint protein MAD2 reveals kinetochore substructure and contrasting mitotic and meiotic localization patterns.

H G Yu et al.
The Journal of cell biology, 145(3), 425-435 (1999-05-04)

We have identified a maize homologue of yeast MAD2, an essential component in the spindle checkpoint pathway that ensures metaphase is complete before anaphase begins. Combined immunolocalization of MAD2 and a recently cloned maize CENPC homologue indicates that MAD2 localizes

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Alkaline Phosphomonoesterase-Harboring Microorganisms Mediate Soil Phosphorus Transformation With Stand Age in Chinese Pinus massoniana Plantations.

Yueming Liang et al.
Frontiers in microbiology, 11, 571209-571209 (2020-12-18)

phoD-harboring microorganisms facilitate mineralization of organic phosphorus (P), while their role in the regulation of soil P turnover under P-limited conditions in Pinus massoniana plantations is poorly understood. The aim of the present study was to investigate the effects of

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DNA Topoisomerases maintain promoters in a state competent for transcriptional activation in Saccharomyces cerevisiae.

Jakob Madsen Pedersen et al.
PLoS genetics, 8(12), e1003128-e1003128 (2013-01-04)

To investigate the role of DNA topoisomerases in transcription, we have studied global gene expression in Saccharomyces cerevisiae cells deficient for topoisomerases I and II and performed single-gene analyses to support our findings. The genome-wide studies show a general

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M V Stogov et al.
Klinicheskaia laboratornaia diagnostika, (11)(11), 21-22 (2013-01-12)

The article deals with the results of study of chemical composition of solitary cysts and blood serum of 27 patients. The results demonstrated that qualitative composition of f content of unicameral bone cysts is identical to chemical composition of blood

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Enzymatic Assay of Acid Phosphatase (EC 3.1.3.2)

Enzymatic Assay of Acid Phosphatase (EC 3.1.3.2)

PRODUITS CONSULTÉS RÉCEMMENT

Sigma-Aldrich
P3619
Phosphate Buffer Solution
1.0 M, pH 7.4 (25 °C)

Sigma-Aldrich
P3563
Phosphate Buffered Saline with 0.05% TWEEN® 20, pH 7.4

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Évaluations

★★★★★

Soyez le premier à donner votre avis sur ce produit

Questions

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