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caractéristiques

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documents


P4716 ▶ **Sigma-Aldrich.**

Pectinase from *Aspergillus niger*

★★★★★ (0)

BioReagent, suitable for plant cell culture, aqueous glycerol solution, ≥5 units/mg protein (Lowry)

Synonyme(s):

Poly-(1,4-α-D-galacturonide) glycanohydrolase, Polygalacturonase solution from *Aspergillus niger*

Numéro CAS: **9032-75-1**

Numéro de classification
(Commission des enzymes):

3.2.1.15 (BRENDA, IUBMB)

Numéro EC: **232-885-6**

Numéro MDL:

MFCD00131809

NACRES: NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité	
P4716-5KU	5000 UNITS	✓ Date d'expédition estimée le 03 novembre 2022	55,10 €	- +	
P4716-10KU	10000 UNITS	✓ Date d'expédition estimée le 03 novembre 2022	101,00 €	- +	
P4716-25KU	25000 UNITS	✓ Date d'expédition estimée le 01 novembre 2022	164,00 €	- +	
P4716-100KU	100000 UNITS	✓ Date d'expédition estimée le 01 novembre 2022	496,00 €	- +	

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

P2401

Pectinase from *Rhizopus* sp.
powder, 400-800 units/g solid

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P2611

Pectinase from *Aspergillus aculeatus*
aqueous solution, ≥3,800 units/mL

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	<i>Aspergillus niger</i>
Niveau de qualité	200
Gamme de produits	BioReagent
Forme	aqueous glycerol solution
specific activity	≥5 units/mg protein (Lowry)

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technique(s)	cell culture plant: suitable
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Autre catégorie plus écologique	Enabling
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Temp. de stockage	2-8°C
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Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[Greener Alternative Products](#)

[Plant Culture Media](#)

DESCRIPTION

Description générale

We are committed to bringing you Greener Alternative Products, which adhere to one or more of The 12 Principles of Greener Chemistry. This product has been enhanced for energy efficiency and waste prevention when used in cellulosic ethanol research. For more information see the [article in biofiles](#) and [Enzymes for Alternative Energy Research](#).

Application

Pectinase from *Aspergillus niger* has been used:

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- to study their role in the invasion of plant tissues by phytopathogens, the spoilage of produce and various food processing and plant biotechnology applications

Used in plant protoplast preparation to digest cell wall prior to organelle isolation.

Conditionnement

25000, 100000 units in glass bottle

Actions biochimiques/physiologiques

Pectolytic enzyme preparation produced from a selected strain of *Aspergillus niger*. contains mainly pectintranseliminase, polygalacturonase, and pectinesterase and small amounts of hemicellulases and cellulases. Pectinases hydrolyses pectin, which is a component of the cell wall. They may attack methyl-esterified pectin or de-esterified pectin. It is a source of pectinase activity, also containing cellulase and hemicellulase activities. Pectinase catalyzes the random hydrolysis of α -(1-4)-Dgalactosiduronic linkages in pectin and other galacturonans.

Définition de l'unité

One unit will liberate 1.0 μ mole of galacturonic acid from polygalacturonic acid per min at pH 4.0 at 25 °C.

Forme physique

Solution in 40% glycerol

Autres remarques

View more information on [enzymes for complex carbohydrate analysis](https://www.sigmaaldrich.com/enzymes-for-complex-carbohydrate-analysis) at www.sigmaaldrich.com/enzymeexplorer

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**Pictograms****GHS08****Mention d'avertissement**

Danger

Mentions de danger**H334****Classification des risques**

Resp. Sens. 1

Code de la classe de stockage

10 - Combustible liquids

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)

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Numéro de lot

e.g. 023J5431

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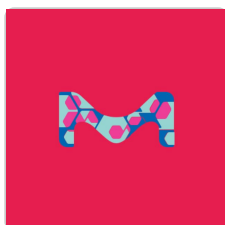
Rechercher

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Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

D9692

Plant Protoplast Digest/Wash Solution

Rapid isolation of viable protoplasts from plant tissue

Consulter le prix et la disponibilité



Sigma-Aldrich

L3768

Lysing Enzymes from *Aspergillus* sp.
powder

Consulter le prix et la disponibilité



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Karyotypes of some species of *Castanopsis*, *Lithocarpus* and *Quercus* (Fagaceae) from Khun Mae Kuang Forest in Chiang Mai province, northern Thailand

Chokchaichamnankit P, et al.

Thai Forest Bulletin, 38-44 (2007)

Satellite DNA landscapes after allotetraploidization of quinoa (*Chenopodium quinoa*) reveal unique A and B subgenomes.

Tony Heitkam et al.

The Plant journal : for cell and molecular biology, 103(1), 32-52 (2020-01-26)

If two related plant species hybridize, their genomes may be combined and duplicated within a single nucleus, thereby forming an allotetraploid. How the emerging plant balances two co-evolved genomes is still a matter of ongoing research. Here, we focus on

Tolerance mechanisms in mercury-exposed *Chromolaena odorata* (Lf) RM King et H. Robinson, a potential phytoremediator

Alcantara HJP, et al.

Journal of Degraded and Mining Lands Management, 1(1), 09-20 (2013)

Foliar Essential Oil Glands of *Eucalyptus* Subgenus *Eucalyptus* (Myrtaceae) Are a Rich Source of Flavonoids and Related Non-Volatile Constituents.

Jason Q D Goodger et al.

PloS one, 11(3), e0151432-e0151432 (2016-03-16)

The sub-dermal secretory cavities (glands) embedded within the leaves of *Eucalyptus* (Myrtaceae) were once thought to be the exclusive repositories of monoterpene and sesquiterpene oils. Recent research has debunked this theory and shown that abundant non-volatile compounds also occur within

Optimizing Protocols for *Arabidopsis* Shoot and Root Protoplast Cultivation.

Taras Pasternak et al.

Plants (Basel, Switzerland), 10(2) (2021-03-07)

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ATTIENDEZ TOUS LES ARTICLES SCIENTIFIQUES APPARENTES

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Carbohydrate Analysis III

A key resource feature at our Enzyme Explorer section of biochemicals is "Enzymes for Carbohydrate Analysis and Digestion." Offering kits, reagents, analysis, lists of enzymes related to PTM and carbohydrate metabolism.

Protocoles

Enzymatic Assay of Pectinase

Objective: To standardize a procedure for determining the enzymatic activity of Pectinase.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

P4638

Poly-L-ornithine hydrobromide

mol wt >100,000



Sigma-Aldrich

P4636

Poly-L-glutamic acid sodium salt

mol wt 3,000-15,000



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Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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