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10113 ▶ **Sigma-Aldrich.**

Amyloglucosidase from *Aspergillus niger*

★★★★★ (0)

powder, white, ~120 U/mg

Synonyme(s):

1,4- α -D-Glucan glucohydrolase, Exo-1,4- α -glucosidase, Glucoamylase

Numéro CAS: **9032-08-0**

Numéro EC: **232-877-2**

NACRES: NA.54

Numéro de classification
(Commission des enzymes): **3.2.1.3 (BRENDA, IUBMB)**

Numéro MDL: **MFCD00081350**

Référence	Conditionnement	Disponibilité	Prix	Quantité
10113-1G	1 G	 Only 2 left in stock (more on the way) Détails...	181,00 €	— + 
10113-5G	5 G	 Disponible pour expédition le 03 octobre 2022 Détails...	618,00 €	— + 

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

10115

Amyloglucosidase from *Aspergillus niger*
lyophilized, powder, ~70 U/mg

Consulter le prix et la disponibilité



Sigma-Aldrich

A7420

Amyloglucosidase from *Aspergillus niger*
lyophilized powder, 30-60 units/mg protein (biuret),
≤0.02% glucose

Consulter le prix et la disponibilité

PROPRIÉTÉS

Forme powder

Niveau de qualité 100

specific activity ~120 U/mg

Poids mol. M_r ~97000

Caractéristiques du produit alternatif plus écologique Waste Prevention
Design for Energy Efficiency
Learn more about the [Principles of Green Chemistry](#).

Couleur white

Activité étrangère protease ≤0.1%

Autre catégorie plus écologique [Enabling](#)

Temp. de stockage 2-8°C

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

Catégories apparentées

[Greener Alternative Products](#)

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 starch hydrolysis research. For more information see the [article in biofiles](#).

Définition de l'unité

1 U corresponds to the amount of enzyme which liberates 1 μmol glucose per minute at pH 4.8 and 60 °C (starch, Cat. No. 85642, as substrate).

Autres remarques

Synthesis of hetero-oligosaccharides by glucoamylase in reverse.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H334

Conseils de prudence

P261 - P284 - P501

Classification des risques

Resp. Sens. 1

Code de la classe de stockage

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

e.g. 023J5431

Comment saisir un numéro de lot (COO)

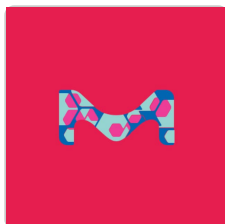
Rechercher

Plus De Documents

[Enzyme Explorer](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



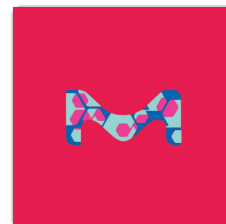
Sigma-Aldrich

172426

Glucoamylase, *Rhizopus sp.*

Glucoamylase is a multi-domain enzyme that belongs to the glycosyl hydrolase 15 family. Useful for the enzymat...

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

08124

Isoamylase from *Pseudomonas sp.*

ammonium sulfate suspension, ≥10,000,000 units/mg protein

[Consulter le prix et la disponibilité](#)



QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

What is the molecular weight of Product 10113, Amyloglucosidase from *Aspergillus niger*?

Amyloglucosidase from *A. niger* exists in two isoforms with MWs of 69,810 and 89,130, as determined by SDS-PAGE. See: Starch, 34, 346 (1982).

Does Product 10113, Amyloglucosidase from *Aspergillus niger*, contain any stabilizers or additives?

No extending additives such as glucose or sucrose are added. It is unknown if the starting material contained any additives. This product does not contain sodium acetate buffer salts.

How can a solution of Product 10113, Amyloglucosidase from *Aspergillus niger*, be prepared?

A 1 mg/mL solution may be prepared in 10 mM sodium acetate buffer at approximately pH 4.8.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

R.A. Rastall et al.

Biotechnology Letters, 13, 501-501 (1991)

Assaying Glycogen and Trehalose in Yeast.

Yuping Chen et al.

Bio-protocol, 7(13), e2371-e2371 (2017-07-05)

Organisms store carbohydrates in several forms. In yeast, carbohydrates are stored in glycogen (a multi-branched polysaccharide) and in trehalose (a disaccharide). As in other organisms, the amount of stored carbohydrate varies dramatically with physiological state, and accordingly, an assay of

Dry-heat processing at different conditions impact the nutritional composition and in vitro starch and protein digestibility of immature rice-based products.

Kulwa F Miraji et al.

Food & function, 12(16), 7527-7545 (2021-07-07)

Immature grain represents a precious nutritional source in many rural Africa areas. To optimize processing of immature rice into pepeta (a traditional rice-flakes produced from immature rice grains), immature rice (TXD306 variety) harvested at 18 and 26 days after 50%

Two Arabidopsis ADP-glucose pyrophosphorylase large subunits (APL1 and APL2) are catalytic.

Tiziana Ventriglia et al.

Plant physiology, 148(1), 65-76 (2008-07-11)

ADP-glucose (Glc) pyrophosphorylase (ADP-Glc PPase) catalyzes the first committed step in starch biosynthesis. Higher plant ADP-Glc PPase is a heterotetramer ($\alpha(2)\beta(2)$) consisting of two small and two large subunits. There is increasing evidence that suggests that catalytic and regulatory properties

Glycosylation-independent lysosomal targeting of acid α -glucosidase enhances muscle glycogen clearance in pompe mice.

John A Maga et al.

The Journal of biological chemistry, 288(3), 1428-1438 (2012-11-29)

We have used a peptide-based targeting system to improve lysosomal delivery of acid α -glucosidase (GAA), the enzyme deficient in patients with Pompe disease. Human GAA was fused to the glycosylation-independent lysosomal targeting (GILT) tag, which contains a portion of insulin-like

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PRODUITS CONSULTÉS RÉCEMMENT

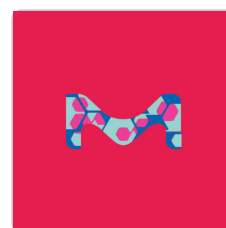


Sigma-Aldrich

10069

α -Amylase from *Bacillus* sp.
powder, yellow-brown, ~380 U/mg

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

10080

α -Amylase from hog pancreas
powder, ~50 U/mg

[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](#)

SERVICE TECHNIQUE

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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