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G5160 ▶ **Sigma-Aldrich**

β -Galactosidase from *Aspergillus oryzae*

★★★★★ (0)

≥8.0 units/mg solid



[Toutes les photos](#) (3)

Synonyme(s):

β -D-Galactoside galactohydrolase, Lactase from *Aspergillus oryzae*

Numéro CAS:

9031-11-2

Numéro de classification (Commission des enzymes):

3.2.1.23 (**BRENDA**, **IUBMB**)

Numéro EC:

232-864-1

Numéro MDL:

MFCD00130623

Select an Option

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25000 UNITS

82,00 €



Disponible pour expédition le 10 octobre 2022 - **De**

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1

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Documents

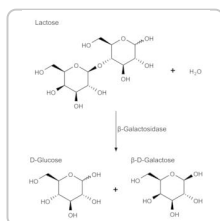
[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

G5635

β -Galactosidase from *Escherichia coli*

Grade VIII, lyophilized powder, ≥ 500 units/mg protein

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Forme

solid

Niveau de qualité

200

specific activity

≥8.0 units/mg solid

Contient

dextrin as extender

Temp. de stockage

-20°C

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

DESCRIPTION

Description générale

β-Galactosidase is a member of the glycoside hydrolase clan A (GH-A) family. It is widely present in microorganisms, which includes both prokaryotes and eukaryotes.

Application

β-Galactosidase from *Aspergillus oryzae* has been used:

- in *in vitro* nuclear magnet resonance (NMR)
- as a standard in the β-galactosidase assay to determine the concentration of cell-associated β-galactosidase
- to modify sugar residues on the surface of the mutant slime cells to study the adhesive properties
- for enzymatic hydrolysis of lactose
- for reversed-phase (RP) adsorption
- in the hydrolysis of whey lactose

Conditionnement

25000, 125000, 500000 units in poly bottle

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galactooligosaccharides (GOS). β -Galactosidases might be used for glycobiological and biotechnological applications.

β -galactosidase cleaves lactose into its monosaccharide components, glucose and galactose. It also catalyses the transglycosylation of glucose into allolactose, the inducer of β -galactosidase, in a feedback loop.

Définition de l'unité

One unit will hydrolyze 1.0 μ mole of lactose per minute at pH at 4.5 at 30 °C.

PRODUITS APPARENTÉS

Inhibiteur

D6518

Diethylenetriaminepentaacetic acid, $\geq 99\%$ (titration)

[View Pricing](#)

P9375

1,10-Phenanthroline monohydrate, reagent grade

[View Pricing](#)

E4378

Ethylene glycol-bis(2-aminoethylether)-*N,N,N',N'*-tetraacetic acid, $\geq 97.0\%$

[View Pricing](#)

ED2SS

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

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Substrat

M1633

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[GET YOURS HERE](#)**B4252**

5-Bromo-4-chloro-3-indolyl β -D-galactopyranoside, $\geq 98\%$, powder

[View Pricing](#)**B6024**

5-Bromo-4-chloro-3-indolyl β -D-galactopyranoside, tablet

[View Pricing](#)**F2756**[View Pricing](#)**B4387**

5-Bromo-3-indolyl β -D-galactopyranoside, $\geq 98\%$

[View Pricing](#)

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)

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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)

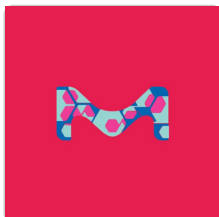
Rechercher

Plus De Documents

[Enzyme Explorer](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

345788

β -Galactosidase, *E. coli*

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ARTICLES REVUS PAR DES PAIRS

Hydrolysis of whey lactose by immobilized β -Galactosidase

Marcela Panaro Mariotti; Hideko Yamanaka; Angela Regina Araujo; Henrique Celso Trevisan
Brazilian Archives of Biology and Technology, 51 (2008)

Enhanced tumor therapy using vaccinia virus strain GLV-1h68 in combination with a β -galactosidase-activatable prodrug seco-analog of duocarmycin SA.

C M Seubert et al.
Cancer gene therapy, 18(1), 42-52 (2010-09-11)

Breast cancer is the most common cause of cancer-related death worldwide, thus remaining a crucial health problem among women despite advances in conventional therapy. Therefore, new alternative strategies are needed for effective diagnosis and treatment. One approach is the use

Recombinant *Aspergillus* β -galactosidases as a robust glycomic and biotechnological tool.

Martin Dragosits et al.
Applied microbiology and biotechnology, 98(8), 3553-3567 (2013-09-17)

Galactosidases are widespread enzymes that are used for manifold applications, including production of prebiotics, biosynthesis of different transgalactosylated products, improving lactose tolerance and in various analytical approaches. The nature of these applications often require galactosidases to be present in a

A ^{19}F -NMR approach using reporter molecule pairs to assess beta-galactosidase in human xenograft tumors in vivo.

Jian-Xin Yu et al.
NMR in biomedicine, 21(7), 704-712 (2008-02-22)

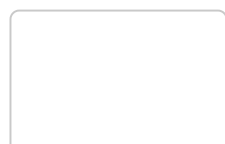
Gene therapy has emerged as a promising strategy for treatment of various diseases. However, widespread implementation is hampered by difficulties in assessing the success of transfection in the target tissue and the longevity of gene expression. Thus, there is increasing

Modular process for the flexible synthesis of magnetic beads-Process and product validation

Birgit Hickstein¹, and Urs Alexander Peuker
Journal of Applied Polymer Science, 112, 2366-2373 (2009)

Afficher tous les articles scientifiques apparentés

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G5154

Glasgow Minimum Essential Medium

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Questions

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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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