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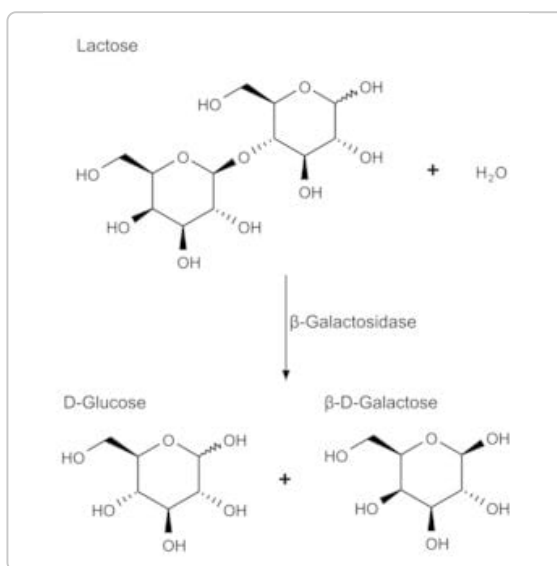


G4155 ▶ **Sigma-Aldrich**

β -Galactosidase from *Escherichia coli*

★★★★★ (0)

aqueous glycerol suspension, ≥ 500 units/mg protein (biuret)



[Toutes les photos](#) (1)

Synonyme(s):

β -D-Galactoside galactohydrolase, Lactase

Numéro CAS:

9031-11-2

Numéro de classification (Commission des enzymes):

3.2.1.23 (BRENDA, IUBMB)

Numéro MDL:

MFCD00130623

NACRES:

NA.54

Select an Option

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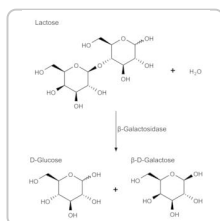
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[GET YOURS HERE](#)**Forme**

aqueous glycerol suspension

Niveau de qualité

200

specific activity

≥500 units/mg protein (biuret)

Poids mol.

465 kDa

Temp. de stockage

-20°C

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

DESCRIPTION

Application

β-Galactosidase is used in the enzymatic assays in the synthesis of imidazolo-pyrrolidinoses.

Conditionnement

5000 units in glass bottle

Actions biochimiques/physiologiques

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.

Propriétés physiques

Tetramer molecular weight 465 kDa (subunits 116.3 kDa each)

Définition de l'unité

One unit will hydrolyze 1.0 μmole of o-nitrophenyl β-D-galactoside to o-nitrophenol and D-galactose per min at pH 7.3 at 37 °C.

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Autres remarques

Loss of enzymatic activity can occur if this enzyme is frozen. This enzyme is provided in a 50% glycerol solution and will not freeze if stored at -20° Celsius. It is not recommended that this enzyme preparation be stored in an ultracold freezer (-60 to -100° Celsius).

PRODUITS APPARENTÉS

Inhibiteur

D6518

Diethylenetriaminepentaacetic acid, ≥99% (titration)

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P9375

1,10-Phenanthroline monohydrate, reagent grade

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E4378

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

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ED2SS

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

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Substrat

M1633

4-Methylumbelliferyl β-D-galactopyranoside, ≥99% (TLC)

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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

10 - Combustible liquids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

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

Numéro de lot

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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)

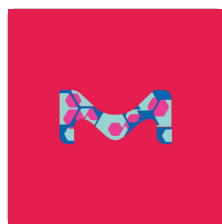
Rechercher

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[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

345788

β -Galactosidase, *E. coli*

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ARTICLES REVUS PAR DES PAIRS

Carbohydrate transition state mimics: synthesis of imidazolo-pyrrolidinones as potential nectrisine surrogates.

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imidazolo-pentoses in both the L- and the D-series

Three-Dimensional X-ray Imaging of β -Galactosidase Reporter Activity by Micro-CT: Implication for Quantitative Analysis of Gene Expression.

Olga Ermakova et al.

Brain sciences, 11(6) (2021-07-03)

Acquisition of detailed anatomical and molecular knowledge from intact biological samples while preserving their native three-dimensional structure is still a challenging issue for imaging studies aiming to unravel a system's functions. Three-dimensional micro-CT X-ray imaging with a high spatial resolution

Netrin 1 and Dcc signalling are required for confinement of central axons within the central nervous system.

Christophe Laumonnerie et al.

Development (Cambridge, England), 141(3), 594-603 (2014-01-23)

The establishment of anatomically stereotyped axonal projections is fundamental to neuronal function. While most neurons project their axons within the central nervous system (CNS), only axons of centrally born motoneurons and peripherally born sensory neurons link the CNS and peripheral

GM1-gangliosidosis (genetic beta-galactosidase deficiency): identification of four mutations in different clinical phenotypes among Japanese patients.

J Nishimoto et al.

American journal of human genetics, 49(3), 566-574 (1991-09-01)

GM1-gangliosidosis is a genetic neurological disorder caused by mutations in the lysosomal acid beta-galactosidase gene. While its phenotypic expression is complex, it is usually classified as being of infantile, juvenile, or adult form, on the basis of age at onset

Alternative splicing of beta-galactosidase mRNA generates the classic lysosomal enzyme and a beta-galactosidase-related protein.

H Morreau et al.

The Journal of biological chemistry, 264(34), 20655-20663 (1989-12-05)

We have isolated two cDNAs encoding human lysosomal beta-galactosidase, the enzyme deficient in GM1-gangliosidosis and Morquio B syndrome, and a beta-galactosidase-related protein. In total RNA from normal fibroblasts a major mRNA of about 2.5 kilobases (kb) is recognized by cDNA

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PRODUITS CONSULTÉS RÉCEMMENT



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Évaluations



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Questions

Soyez le premier à poser une question

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