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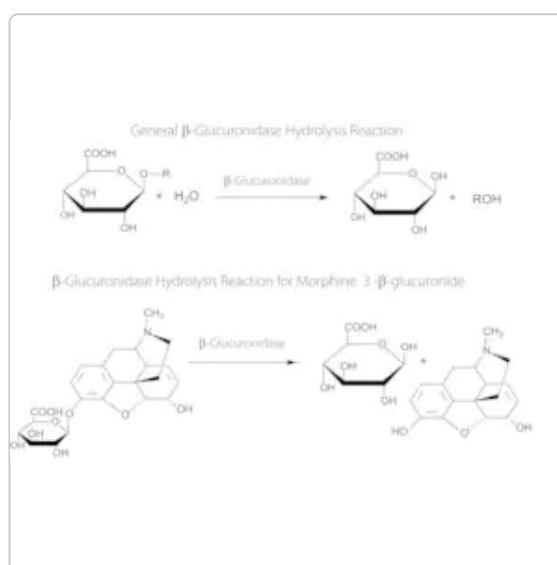


G0251 ▶ **Sigma-Aldrich.**

β-Glucuronidase from bovine liver

★★★★★ (0)

Type B-1, ≥1,000,000 units/g solid



[Toutes les photos \(5\)](#)

Synonyme(s):

Bovine Liver beta-Glucuronidase, β-D-Glucuronide glucuronosohydrolase

Numéro CAS:

9001-45-0

Numéro de classification (Commission des enzymes):

3.2.1.31 (BRENDA, IUBMB)

Numéro EC:

232-606-8

Numéro MDL:

MFCD00130629

Select an Option

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100000 UNITS

81,00 €



Date d'expédition estimée le 03 novembre 2022

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1

+

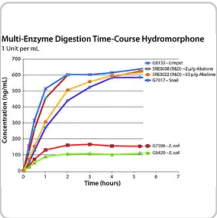
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Documents

- [↓ FDS](#)
- [🔍 COO/COA](#)
- [📄 Fiche des caractéristiques](#)
- [Plus de documents >>](#)

PRODUITS RECOMMANDÉS



Sigma-Aldrich

G7396

β-Glucuronidase from *Escherichia coli*

Type IX-A, lyophilized powder, 1,000,000-5,000,000 units/g protein (30 min assay)

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Type

Type B-1

Niveau de qualité

200

Forme

solid

specific activity

≥1,000,000 units/g solid

Temp. de stockage

-20°C

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

Catégories apparentées

[Drug Analysis Enzymes](#)

DESCRIPTION

Description générale

β-Glucuronidase (GUSB) is a lysosomal enzyme, found in animals, plants and bacteria. This exoglycosidase shows high activity in spleen, liver and kidney. Bovine liver β-glucuronidase (BLG) is homotetramer with a molecular weight of 290 kDa.

Application

β-Glucuronidase from bovine liver has been used in β-glucuronidase inhibition assay to study the β-glucuronidase inhibitory effect of extracts and isolated actives from *Phyllanthus amarus*. It has also been used to perform deglucuronidation.

β-glucuronidase is used as a reporter gene in GUS assays to monitor gene expression.

Conditionnement

100000, 500000, 1000000, 5000000 units in poly bottle

Actions biochimiques/physiologiques

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β -glucuronidase catalyzes the breakdown of complex carbohydrates. In humans it converts conjugated bilirubin into the unconjugated form, making bilirubin suitable for reabsorption.

Définition de l'unité

One Sigma or modified Fishman unit will liberate 1.0 μ g of phenolphthalein from phenolphthalein glucuronide per hr at 37 °C at pH 5.0 (30 min assay).

PRODUITS APPARENTÉS

Substrat

N7006

4-Nitrophenyl β -D-glucopyranoside, $\geq 98\%$ (TLC)

[View Pricing](#)

B8174

5-Bromo-4-chloro-3-indolyl β -D-glucuronide sodium salt, tablet

[View Pricing](#)

B4532

5-Bromo-6-chloro-3-indolyl β -D-glucuronide cyclohexylammonium salt, $\geq 98\%$

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

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P280 - P302 + P352

Classification des risques

Resp. Sens. 1 - Skin 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

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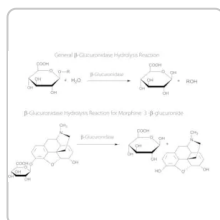


Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

G1512

β -Glucuronidase from *Helix pomatia*

Type H-5, lyophilized powder, $\geq 400,000$ units/g solid

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ARTICLES REVUS PAR DES PAIRS

Urinary screening for alprazolam, triazolam, and their metabolites with the EMIT d.a.u. benzodiazepine metabolite assay.

A D Fraser

Journal of analytical toxicology, 11(6), 263-266 (1987-11-01)

Alprazolam (Xanax) and triazolam (Halcion) are relatively new triazolobenzodiazepines that are anxiolytic and hypnotic. This study assesses the reactivity of these drugs and their major metabolites in the EMIT d.a.u. benzodiazepine metabolite assay. Analytical standards of drugs and metabolites and

Non-oxidative ethanol metabolism in human hepatic cells in vitro: Involvement of uridine diphospho-glucuronosyltransferase 1A9 in ethylglucuronide production.

Chloé Hugbart et al.

Toxicology in vitro : an international journal published in association with BIBRA, 66, 104842-104842 (2020-04-14)

Ethanol is the most frequently psychoactive substance used in the world, leading to major public health problems with several millions of deaths attributed to alcohol consumption each year. Metabolism of ethanol occurs mainly in the liver via the predominant oxidative

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Journal of Chromatography. B, Biomedical Sciences and Applications, 655(1), 53-62 (1994)

Biology-oriented drug synthesis (BIODS): In vitro β -glucuronidase inhibitory and in silico studies on 2-(2-methyl-5-nitro-1H-imidazol-1-yl)ethyl aryl carboxylate derivatives.

Uzma Salar et al.

European journal of medicinal chemistry, 125, 1289-1299 (2016-11-26)

Current study is based on the biology-oriented drug synthesis (BIODS) of 2-(2-methyl-5-nitro-1H-imidazol-1-yl)ethyl aryl carboxylate derivatives 1-26, by treating metronidazole with different aryl and hetero-aryl carboxylic acids in the presence of 1,1'-carbonyl diimidazole (CDI) as a coupling agent. Structures of all

Two metabolites of sulphinpyrazone and their identification and determination by mass spectrometry.

P Jakobsen et al.

The Journal of pharmacy and pharmacology, 33(2), 89-92 (1981-02-01)

Sulphinpyrazone is an antiplatelet in vivo and in vitro. Two active metabolites, a sulphide (S) and a hydroxylated sulphide (S-OH) have been identified in rabbit and human plasma and a selective and sensitive g.c.-m.s.-method for quantitative determination of the sulphide

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

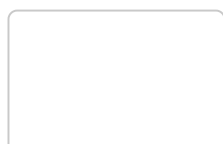
Enzymatic Assay of β -Glucuronidase (EC 3.2.1.31) from Helix Pomatia and Bovine Liver

Enzymatic Assay of β -Glucuronidase (EC 3.2.1.31) from Helix Pomatia and Bovine Liver

Using UHPLC/MS (TOF) for Detection of Drugs and Metabolites in Urine Following Optimized Enzymatic Hydrolysis Conditions

To optimize hydrolysis using β -glucuronidase, factors such as incubation time, temperature, hydrolysis pH, enzyme source, and enzyme concentration must be evaluated for each glucuronide metabolite to be analyzed.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G019

Muscimol hydrobromide

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Évaluations

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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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