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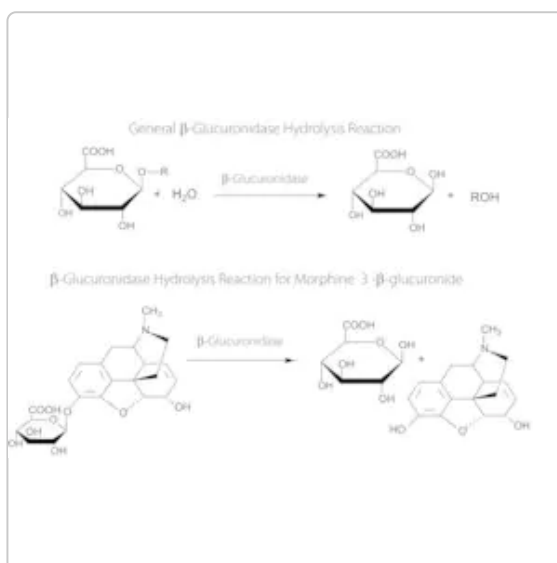


G0799 ► Sigma-Aldrich.

β-Glucuronidase from *Escherichia coli*

★★★★★ (0)

>20,000,000 units/g protein, recombinant, expressed in *E. coli*, aqueous glycerol solution



Toutes les photos (3)

Synonyme(s):

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

NACRES:

NA.54

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G0799-25KU



25000 UNITS

127,00 €



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PRODUITS RECOMMANDÉS



Roche

BGALS-RO

β-Glucuronidase

from E. coli K 12

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Recombinant
expressed in *E. coli*

Niveau de qualité
200

Forme
aqueous glycerol solution

specific activity
>20,000,000 units/g protein

Poids mol.
74 kDa

Concentration
>1 mg/mL

Expédié(e)s dans
wet ice

Temp. de stockage
-20°C

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

Catégories apparentées

[Drug Analysis Enzymes](#)

DESCRIPTION

Description générale

β -Glucuronidase is a tetramer belonging to the glycosidase family with a molecular weight of 29 kDa. It is composed of 74 kDa identical monomers. The pI and optimal pH of the enzyme is 4.8 and 6-7 respectively.

Application

β -Glucuronidase was used in the study of Cer- β -glucuronide synthesis and evaluation of β -glucuronidase(s) from *Escherichia coli* or intestinal segments to release the head group.

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classes using enzymes from different sources and the use of a chromatographically purified enzyme to reduce the effect of esterase activity resulting in conversion of 6-MAM to Morphine

Effective in the hydrolysis of steroid glucuronides.

Used for the hydrolysis of glucuronide conjugates in urinary **metabolite analysis**

Conditionnement

25000, 100000 units in poly bottle

Définition de l'unité

One Sigma or modified Fishman unit will liberate 1.0 µg of phenolphthalein from phenolphthalein glucuronide per hr at 37 °C at the pH 6.8 (30 min assay).

Forme physique

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

Highly purified solution in 50% glycerol

PRODUITS APPARENTÉS

Substrat

B8174

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

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B4532

5-Bromo-6-chloro-3-indolyl β-D-glucuronide cyclohexylammonium salt, ≥98%

[View Pricing](#)

73677

4-Nitrophenyl β-D-glucuronide, ≥99.0% (TLC)

[View Pricing](#)

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Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H317 - H334

Conseils de prudence

P261 - P280 - P342 + P311

Classification des risques

Resp. Sens. 1 - Skin Sens. 1

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 3

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

e.g. 023J5431

Comment saisir un numéro de lot (COA)

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Certificat d'origine

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

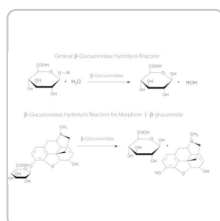
Rechercher

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LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

G8885

β -Glucuronidase from *Helix pomatia*

Type H-3, aqueous solution, $\geq 90,000$ units/mL

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ARTICLES REVUS PAR DES PAIRS

Purification and characterization of beta-glucuronidase from *Escherichia coli* HGU-3, a human intestinal bacterium.

DHKim et al.

Biological & pharmaceutical bulletin, 18(9), 1184-1188 (1995-09-01)

beta-Glucuronidase was purified 360-fold from *Escherichia coli* HGU-3, an human intestinal bacterium. The specific activity of the purified enzyme was 17.78 units/mg protein. The enzyme (M.W. 290000) is composed of

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Carcinogenesis.

E M Schmelz et al.

Cancer research, 59(22), 5768-5772 (1999-12-03)

Dietary sphingolipids inhibit chemically induced colon cancer in mice. The most likely mediators of this effect are the metabolites ceramide (Cer) and sphingosine, which induce growth arrest and apoptosis in transformed cells. Sphingolipids are digested in both the upper and

[Construction of a lentiviral RNA interference system targeting heparanase based on miR30 and its silencing effect].

Xiaoyan Liu et al.

Zhejiang da xue xue bao. Yi xue ban = Journal of Zhejiang University. Medical sciences, 42(1), 67-74 (2013-03-19)

To construct a lentiviral RNA interference system targeting heparanase (HPSE) based on miR30 and to test its silencing effect. Three heparanase-shRNA structures were designed based miR30. The targeting fragments were obtained by PCR, then inserted into the vector LV PP-GFP

Exploring mechanisms of FGF signalling through the lens of structural biology.

Regina Goetz et al.

Nature reviews. Molecular cell biology, 14(3), 166-180 (2013-02-14)

Fibroblast growth factors (FGFs) mediate a broad range of functions in both the developing and adult organism. The accumulated wealth of structural information on the FGF signalling pathway has begun to unveil the underlying molecular mechanisms that modulate this system

Antitumor efficacy of the heparanase inhibitor SST0001 alone and in combination with antiangiogenic agents in the treatment of human pediatric sarcoma models.

G Cassinelli et al.

Biochemical pharmacology, 85(10), 1424-1432 (2013-03-08)

The activity of heparanase is responsible for heparan sulfate cleavage, thus resulting in the release of heparan sulfate-bound growth factors. Since heparanase activity is upregulated in several tumor types and is implicated in the malignant behavior, the enzyme is regarded

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

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.

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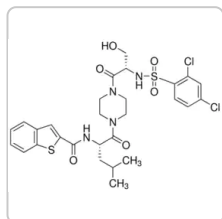
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PRODUITS CONSULTÉS RECEMMENT



Sigma-Aldrich

G0798

GSK1016790A

≥98% (HPLC)

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Évaluations



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