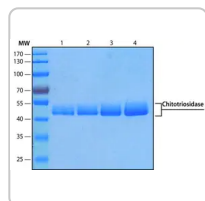


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SAE0052 ▶ **Sigma-Aldrich®**

Chitotriosidase human

★★★★★ (0)

recombinant, expressed in HEK 293 cells

Synonyme(s):

Chitinase-1, Chitotriosidase-1

Numéro de classification
(Commission des enzymes):**3.2.1.14 (BRENDA, IUBMB)**

Documents

**FDS****COO/COA****Fiche des
caractéristiques**

Plus de

documents



Référence	Conditionnement	Disponibilité	Prix	Quantité
SAE0052-10UG	10 µG	✓ Only 4 left in stock (more on the way)	Détails... 303,00 €	- + i

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DNA contaminants, suitable for Microbiome research



fluorogenic glycanase substrate

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PROPRIÉTÉS

Recombinant	expressed in HEK 293 cells
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Niveau de qualité	200
-------------------	-----

Essai/Dosage	98% (SDS-PAGE)
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Forme	lyophilized powder
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specific activity	≥15,000 units/μg protein
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Poids mol.	50 kDa
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Expédié(e)s dans	ambient
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Temp. de stockage	-20°C
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Description générale

Chitotriosidase (CT) is a human chitinase with catalytic activity upon the substrate chitin, a polymer of β -1,4-N-acetylglucosamine. The mature CT consists of 445 amino acids, and contains a potential N-glycosylation site as well as three intrachain disulfide bonds.

Application

The enzymatic activity of recombinant human CT is measured by its ability to hydrolyze the substrate 4-Methylumbelliferyl beta-D-N,N',N''-triacetylchitotriose (Cat. # M5639). This enzymatic hydrolysis releases 4-methylumbelliferone (4MU), which upon ionization in basic pH, can be measured fluorimetrically at an excitation wavelength of 340 nm and an emission wavelength of 465 nm. The use of fluorimetric substrates provides a very sensitive detection system.

Actions biochimiques/physiologiques

CT is currently the most reliable biomarker in Gaucher disease - serum and plasma CT activity is usually measured as the first step in diagnosis of Gaucher disease. Monitoring chitotriosidase activity is widely used during treatment of this pathology by enzyme replacement therapy. Its elevated plasma level reflects gradual intralysosomal accumulation in Gaucher cells (lipid-loaded macrophages). Macrophages overloaded by the enzyme accumulated in lysosomal material (lipids) were shown to secrete chitotriosidase; its increased expression was noted in several lysosomal storage diseases and atherosclerosis.

Séquence

AKLVICYFTNWAQYRQGEARFLPKDLDPSTLCTHLIYAFAGMTNHQLSTTEWNDETLYQEFNGLKKMNPCLKTLLAIGGWNFGTQKFT
DMVATANNRQTFVNSAIRFLRKYSFDGLDLWEYPGSQGSPAVDKERFTTLVQDLANAFQQEAQTSGKERLLLSAAVPAGQTYVDAG
YEVDKIAQNLDVNLDMAYDFHGSWEKVTGHNSPLYKRQEESGAAASLNVDAAVQQWLQKGTTPASKLILGMPTYGRSFTLASSSDTR
VGAPATGSGTPGPFTKEGGMLAYYEVCSWKGATKQRIQDQKVPYIFRDNQWVGFDVDESFKTKVSYLKQKGLGGAMVWALDLDD

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Définition de l'unité

One unit is defined as the amount of CT required to produce 1 pmol of 4-Methylumbelliferone from 4-Methylumbelliferyl beta -D-N',N"-triacetylchitotrioside per minute at 25 °C, pH 5.6.

Forme physique

Supplied as a lyophilized powder containing phosphate buffered saline

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

10 - Combustible liquids

WGK

WGK 1

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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Rechercher

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Enzyme Explorer

FDS

ARTICLES REVUS PAR DES PAIRS

Microstructure and in-depth proteomic analysis of *Perna viridis* shell.

Zhi Liao et al.

PloS one, 14(7), e0219699-e0219699 (2019-07-20)

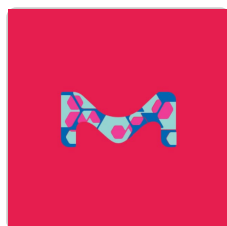
For understanding the structural characteristics and the proteome of *Perna* shell, the microstructure, polymorph, and protein composition of the adult *Perna viridis* shell were investigated. The *P. viridis* shell have two distinct mineral layers, myostracum and nacre, with the same

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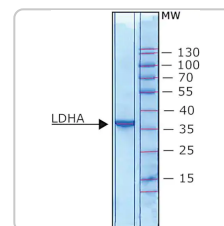


Sigma-Aldrich

SAE0050

Laccase from *Aspergillus* sp.

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Sigma-Aldrich

SAE0049

L-Lactate Dehydrogenase (LDHA)

from human, recombinant, expressed in *E. coli*, aqueous solution

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