



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Recombinant Rat Cystatin-C

CLPRO438
CLPRO438-2
CLPRO438-3
Lot:

Introduction: Cystatins are a superfamily of cysteine proteinase inhibitors found in both plants and animals. They comprise a group of proteinase inhibitors, widely distributed in tissues and body fluids, and form tight complexes with cysteine proteases such as cathepsin B, H, L and S. Cystatin C, a secreted molecule of this family, is of interest from biochemical, medicine and evolutionary points of view. Cystatin C, with molecular weight of 13260 Da, is composed of 120 amino acids, lacks carbohydrate and has two disulfide bridges located near the carboxyl terminus. Cystatin C is increased in patients with malignant diseases, and is related to the insufficiency of renal function and appears to be a better marker than creatinine. On the other hand, low levels of cystatin C involve cause the breakdown of the elastic laminae and, subsequently, the atherosclerosis and abdominal aortic aneurysm.

Description: Total 134 AA, Mw: 14.93 kDa (calculated). N-terminal His-tag (14AA).

Synonyms: Cystatin-C, Cystatin-3, CYSC, MGC105556.

Source: *Escherichia Coli*.

Presentation: 2 µg (CLPRO438), 10 µg (CLPRO438-2) or 1 mg (CLPRO438-3), sterile filtered white lyophilized (freeze-dried) powder. Filtered (0.4 micron) and lyophilized from 0.5 mg/ml in 0.03 M Acetate buffer, pH 4.

Solubility: Add 0.2 ml of 0.1 M Acetate buffer, pH 4, and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 0.1 mg/ml. In higher concentrations the solubility of this antigen is limited.

Stability: Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. Minimum shelf life 2 years.

Amino Acid Sequence: MRGSHHHHHH GMASGTSRPP PRLGAPQEA DASEEGVQRA LDFAVSEYNK
GSNDAYHSRA IQVVRARKQLVAGINYLDV EMGRTTCTKS QTNLTNCPFH DQPHLMRKAL
CSFQIYSVPW KGTHLTLSKSS

Purity: Greater than 96% as determined by SDS-PAGE.

Applications: Western blotting.

Continued...

For more information or to place an order please contact...

CEDARLANE®
LABORATORIES LIMITED



toll free: 1-800-268-5058
in North America

phone: (905) 878-8891 • fax: (905) 878-7800

5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0

or visit our website for a list of our international distributors including contact information
website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

References:

- Pirttilä TJ, Pitkanen A. Cystatin C expression is increased in the hippocampus following photothrombotic stroke in rat. *Neurosci Lett*. 2006 Mar 6;395(2):108-13. Epub 2005 Nov 23.
- Xu L, Sheng J, Tang Z, Wu X, Yu Y, Guo H, Shen Y, Zhou C, Paraoan L, Zhou J. Cystatin C prevents degeneration of rat nigral dopaminergic neurons: in vitro and in vivo studies. *Neurobiol Dis*. 2005 Feb;18(1):152-65.
- Roald AB, Aukland K, Tenstad O. Tubular absorption of filtered cystatin-C in the rat kidney. *Exp Physiol*. 2004 Nov;89(6):701-7. Epub 2004 Aug 24.
- Nagai A, Ryu JK, Kobayash S, Kim SU. Cystatin C induces neuronal cell death in vivo. *Ann N Y Acad Sci*. 2002 Nov;977:315-21.
- Bokenkamp A, Ciarimboli G, Dieterich C. Cystatin C in a rat model of end-stage renal failure. *Ren Fail*. 2001 May-Jul;23(3-4):431-8.

Laboratory Reagent For Research Use Only

JV 11/03/08