

Metalloendopeptidase Meprin Degradomic Approaches Daniel Ambort

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Metalloendopeptidase Meprin Degradomic Approaches Daniel

The author Daniel Ambort describes step- by-step first the principles of degradomics and then its application in protease-substrate discovery. Two biological systems, a cell-based (culture medium- derived proteins) and a cell-free (human milk as polysubstrate), were used to find hitherto unknown substrates for the metalloendopeptidase meprin (zinc- dependent protein-cleaving enzyme).

The metalloendopeptidase meprin - degradomic approaches ...

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The Metalloendopeptidase Meprin - Degradomic Approaches ...

Metalloprotease Meprin β Generates Nontoxic N-terminal Amyloid Precursor Protein Fragments in Vivo * ... Degradomic approaches employ quantitative proteomic techniques to identify protease cleavage sites in a cellular context. ... Stefan Müller, and Daniel Lottaz for animal care. We thank Walter Stöcker for scientific support, Dominique ...

Metalloprotease Meprin β Generates ... - PubMed Central (PMC)

A novel 2D-based approach to the discovery of candidate substrates for the metalloendopeptidase meprin . By Daniel Ambort, Daniel Stalder, Daniel Lottaz, Maya Huguenin, Beatrice Oneda, Manfred Heller and Erwin E Sterchi ... we report the first protease proteomic approach applied to meprin, an astacin-like metalloendopeptidase, to determine ...

A novel 2D-based approach to the discovery of candidate ...

A novel 2D-based approach to the discovery of candidate substrates for the metalloendopeptidase meprin Article in FEBS Journal 275(18):4490-509 · August 2008 with 54 Reads How we measure 'reads'

A novel 2D-based approach to the discovery of candidate ...

In the past, protease-substrate finding proved to be rather haphazard and was executed by in vitro cleavage assays using singly selected targets. In the present study, we report the first protease proteomic approach applied to meprin, an astacin-like metalloendopeptidase, to determine physiological substrates in a cell-based system of Madin-Darby canine kidney epithelial cells.

A novel 2D-based approach to the discovery of candidate ...

Efrat Kessler, in Handbook of Proteolytic Enzymes (Second Edition), Volume 1, 2004. Name and History. β-Lytic metalloendopeptidase, formerly β-lytic protease, was discovered over three decades ago in the culture filtrate of Myxobacter 495, a soil bacterium initially defined as Sorangium sp. (Whitaker, 1965) and currently classified as Lysobacter enzymogenes.

Metalloendopeptidase - an overview | ScienceDirect Topics

Tamara Jefferson, Mirsada Caušević, Ulrich auf dem Keller, Oliver Schilling, Simone Isbert, Rebecca Geyer, Wladislaw Maier, Sabrina Tschickardt, Thorsten Jumpertz ...

Metalloprotease Meprin β Generates Nontoxic N-terminal ...

Daniel Lottaz's 37 research works with 937 citations and 2,164 reads, including: Microbial-induced meprin cleavage in MUC2 mucin and a functional CFTR channel are required to release anchored ...

Daniel Lottaz's research works | Universität Bern, Bern ...

A metalloendopeptidase is an enzyme that functions as a metalloproteinase endopeptidase. External links. Metalloendopeptidase at the US National Library of Medicine Medical Subject Headings (MeSH) This enzyme-related article is a stub. You can help Wikipedia by expanding it ...

Metalloendopeptidase - Wikipedia

The metalloendopeptidase meprin - degradomic approaches : Principles and applications in protease substrate discovery Daniel Ambort Published by Südwestdeutscher Verlag Für Hochschulschriften AG Co. KG Jul 2015 (2015)

Daniel Ambort - AbeBooks

Marcello G. Masciantonio, ... Sean E. Gill, in Progress in Molecular Biology and Translational Science, 2017. 8.1 Summary of Role of Metalloproteinase/TIMP Balance in MVEC Dysfunction. Metalloproteinases, including MMPs and ADAMs, as well as their endogenous inhibitors, the TIMPS, have diverse functions within the setting of inflammation and tissue injury/infection.

Metalloendopeptidase - an overview | ScienceDirect Topics

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The astacin family of metalloendopeptidases was recognized as a novel family of proteases in the 1990s. The crayfish enzyme astacin was the first characterized and is one of the smallest members of the family. More than 20 members of the family have now been identified.

The astacin family of metalloendopeptidases.

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Wizywig Portrait Of A Serial Hacker Ed Piskor

Peptidyl-Asp metalloendopeptidase was first discovered when it was isolated from the supernatant of Pseudomonas fragi. Originally, it was thought that this bacteria produced only a single proteinase, but later it was discovered that P. fragi can produce more than one proteinase species.

Peptidyl-Asp metalloendopeptidase - Wikipedia

Lottaz, Daniel; Maurer, Christoph A; ... (2011). Enhanced activity of meprin-7, a pro-migratory and pro-angiogenic protease, in colorectal cancer. PLo ONE. 6(11). e26450. Lawrence, Kans.: Public Library of ... A novel 2D-based approach to the discovery of candidate substrates for the metalloendopeptidase meprin.

Lottaz, Daniel - Universität Bern

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What does metalloendopeptidase mean?

The 9th General Meeting of the International Proteolysis Society, 3-8 October 2015 The 9th General Meeting of the IPS started on Sunday evening with an outstanding overview by the keynote speaker Chris Overall (University of British Columbia, Canada) on the complexity of proteolysis within both extra-cellular and intracellular environments.