

Cysteine Dioxygenase

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Recent Publications on Cysteine Dioxygenase:



- [Measurement of Cysteine Dioxygenase Activity and Protein Abundance.](#)
Cysteine dioxygenase is an iron (Fe(2+))-dependent thiol dioxygenase that... 4th November, 2009
Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853.- *Curr Protoc toxicol.* 2008 Nov 1;38:6.15.1-6.15.25. ([DOI Direct Link](#))
- [Functional characterization of an orphan cupin protein from Burkholderia xenovorans reveals a mononuclear nonheme Fe²⁺-dependent oxygenase that cleaves beta-diketones.](#)
Cupins constitute a large and widespread superfamily of beta-barrel... 21st October, 2009
Institute of Biotechnology and Biochemical Engineering, Graz University of- *FEBS J.* 2009 Oct;276(20):5983-97. Epub 2009 Sep 15. ([DOI Direct Link](#))
- [Enhancement of menadione stress tolerance in yeast by accumulation of hypotaurine and taurine: co-expression of cDNA clones, from Cyprinus carpio, for cysteine dioxygenase and cysteine sulfinate decarboxylase in Saccharomyces cerevisiae.](#)
Taurine is known to function as a protectant against various stresses in... 28th July, 2009
Department of Bioscience and Biotechnology, Faculty of Agriculture,- *Amino Acids.* 2009 Jul 26. ([DOI Direct Link](#))
- [Cysteine dioxygenase: a robust system for regulation of cellular cysteine levels.](#)
Cysteine catabolism in mammals is dependent upon cysteine dioxygenase... 22nd July, 2009
Division of Nutritional Sciences, Cornell University, 227 Savage Hall,- *Amino Acids.* 2009 May;37(1):55-63. Epub 2008 Nov 15. ([DOI Direct Link](#))
- [Mass-spectrometric characterization of two posttranslational modifications of cysteine dioxygenase.](#)
Recent crystal structures of cysteine dioxygenase (CDO) suggest the... 18th April, 2009
Department of Biochemistry, Centre for Protein Research, University of- *J Biol Inorg Chem.* 2009 Aug;14(6):913-21. Epub 2009 Apr 17. ([DOI Direct Link](#))
- [Evaluations of the trans-sulfuration pathway in multiple liver toxicity studies.](#)
Drug-induced liver injury has been associated with the generation of... 7th March, 2009
Division of Systems Toxicology, National Center for Toxicological- *Toxicol Appl Pharmacol.* 2009 Feb 15;235(1):25-32. Epub 2008 Dec 6. ([DOI Direct Link](#))
- [3-mercaptopropionate dioxygenase, a cysteine dioxygenase homologue, catalyzes the initial step of 3-mercaptopropionate catabolism in the 3,3-thiodipropionic acid-degrading bacterium variovorax paradoxus.](#)
The thioether 3,3-thiodipropionic acid can be used as precursor substrate... 25th February, 2009
Institut für Molekulare Mikrobiologie und Biotechnologie, Westfälische- *J Biol Chem.* 2009 Jan 2;284(1):660-72. Epub 2008 Nov 10. ([DOI Direct Link](#))

- [3T3-L1 adipocytes and rat adipose tissue have a high capacity for taurine synthesis by the cysteine dioxygenase/cysteinesulfinate decarboxylase and cysteamine dioxygenase pathways.](#)
*Taurine is the most abundant free amino acid in the body and is...*20th February, 2009
Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853,- J Nutr. 2009 Feb;139(2):207-14. Epub 2008 Dec 23. ([DOI Direct Link](#))
- [Impaired sulfur-amino acid metabolism and oxidative stress in nonalcoholic fatty liver are alleviated by betaine supplementation in rats.](#)
*Nonalcoholic fatty liver is involved in the development of nonalcoholic...*12th February, 2009
College of Pharmacy, Seoul National University, San 56-1 Shinrim-Dong,- J Nutr. 2009 Jan;139(1):63-8. Epub 2008 Dec 3. ([DOI Direct Link](#))
- [Why Do Cysteine Dioxygenase Enzymes Contain a 3-His Ligand Motif Rather than a 2His/1Asp Motif Like Most Nonheme Dioxygenases?](#)
*Density functional theory calculations on the oxygen activation process in...*10th February, 2009
The Manchester Interdisciplinary Biocenter and the School of Chemical- J Phys Chem A. 2009 Feb 6. ([DOI Direct Link](#))
- [Structural and functional comparison of 2-His-1-carboxylate and 3-His metallocentres in non-haem iron\(II\)-dependent enzymes.](#)
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Institute of Biotechnology and Biochemical Engineering, Graz University of- Biochem Soc Trans. 2008 Dec;36(Pt 6):1180-6. ([DOI Direct Link](#))
- [A putative Fe²⁺-bound persulfenate intermediate in cysteine dioxygenase.](#)
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- [Synthesis of amino acid cofactor in cysteine dioxygenase is regulated by substrate and represents a novel post-translational regulation of activity.](#)
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Department of Nutritional Sciences, Cornell University, Ithaca, NY 14853,- J Biol Chem. 2008 May 2;283(18):12188-201. Epub 2008 Feb 28. ([DOI Direct Link](#))
- [Comparison of the effects of buthioninesulfoximine and phorone on the metabolism of sulfur-containing amino acids in rat liver.](#)
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- [Effects of endocrine disruptors on dehydroepiandrosterone sulfotransferase and enzymes involved in PAPS synthesis: genomic and nongenomic pathways.](#)
*BACKGROUND: Sulfation plays an important role both in detoxification and...*21st March, 2008
School of Biosciences, The University of Birmingham, Edgbaston,- Environ Health Perspect. 2007 Dec;115 Suppl 1:51-4. ([DOI Direct Link](#))

Cysteine Dioxygenase Patents:



- 7579317- [Nutraceutical composition comprising soluble keratin or derivative thereof](#)
- 6645519- [Method for producing taurine-enriched milk](#)

- 6585996- [Lipid-soluble thiamine derivatives in the treatment of autism](#)
- 6468955- [Laundry detergent and/or fabric care compositions comprising a modified enzyme](#)
- 6465410- [Laundry detergent and/or fabric care composition comprising a modified antimicrobial protein](#)
- 6335170- [Gene expression in bladder tumors](#)
- 6204234- [Cleaning compositions comprising a specific oxygenase](#)
- 6025194- [Nucleic acid sequence of senescence associated gene](#)
- 5559038- [Gas chromatography/mass spectrometry determination of oxidized sulfhydryl amino acids](#)
- 6936417- [Gene expression in bladder tumors](#)
- 6974667- [Gene expression profiles in liver cancer](#)
- 7507803- [Optimized multi-epitope constructs and uses thereof](#)
- 7469185- [Primary rat hepatocyte toxicity modeling](#)
- 7427489- [Screening assay to identify modulators of the sleep/wake cycle](#)
- 7426441- [Methods for determining renal toxins](#)
- 7415358- [Molecular toxicology modeling](#)
- 7348410- [Flea head, nerve cord, hindgut and malpighian tubule proteins](#)
- 7244573- [Polynucleotides and polypeptides associated with the development of rheumatoid arthritis](#)
- 7198890- [Method for quantitatively determining homocysteine and a reagent for quantitative determination of homocysteine](#)
- 4963368- [Oxidoreductase enzyme stabilized highly unsaturated fatty acids and derivatives of such acids](#)

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