

HEME OXYGENASE AND THE KIDNEY%0A

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[Heme Oxygenase and the Kidney | DNA and Cell Biology](#)

Heme plays a significant pathogenic role in several diseases involving the kidney. The cellular content of heme, derived either from the delivery of filtered heme proteins such as hemoglobin and myoglobin, or from the breakdown of ubiquitous intracellular heme proteins, is regulated via the heme oxygenase enzyme system.

[Heme oxygenase - Wikipedia](#)

Heme oxygenase is a heme-containing member of the heat shock protein (HSP) family identified as HSP32. HO-1 is a 32kDa enzyme contains 288 amino acid residues . [5] HO is located in the endoplasmic reticulum , though it has also been reported in the mitochondria , cell nucleus , and plasma membrane .

[Heme oxygenase-1 and acute kidney injury](#)

Heme oxygenase activity, possessed by an inducible heme oxygenase-1 (HO-1) and a constitutive isoform (HO-2), catalyzes the conversion of heme to biliverdin, liberates iron, and generates carbon monoxide. First shown in acute kidney injury (AKI), HO-1 is now recognized as a protectant against

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Heme oxygenase (HO) is the rate-limiting enzyme in the degradation of heme [8]. It converts heme to biliverdin via a reaction that produces carbon monoxide and liberates iron [9].

[Heme oxygenase - an overview | ScienceDirect Topics](#)

Heme oxygenase. Heme oxygenase (HO) is the rate-limiting enzyme in the degradation of heme, converting heme to biliverdin, during which iron is released and carbon monoxide is emitted.

[Heme oxygenase isoform-specific expression and ...](#)

Heme oxygenase isoform-specific expression and distribution such as cytochrome P450 become apparent only under patho- in the rat kidney: physiological conditions causing HO induction. Background.

[Heme Oxygenase-1 | Circulation](#)

Heme oxygenase is the major 32-kDa stress protein induced in human skin fibroblasts by UVA radiation, hydrogen peroxide, and sodium arsenite. Proc Natl Acad Sci U S A . 1989 ; 86 : 99-103.

[Heme oxygenase and the kidney UT Health San Antonio](#)

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breakdown of ubiquitous intracellular heme proteins, is regulated via the heme oxygenase enzyme system.

[Pharmacological and Clinical Aspects of Heme Oxygenase ...](#)

I. Introduction. Heme oxygenase (HO-1) is the rate-limiting enzyme in the catabolism of heme, a process that leads to formation of equimolar amounts of the bile pigment biliverdin, free iron, and carbon monoxide (CO).

[Heme Oxygenase 1 as a Therapeutic Target in Acute Kidney ...](#)

In Translation Heme Oxygenase 1 as a Therapeutic Target in Acute Kidney Injury Subhashini Bolisetty, PhD,1,2,3,* Abolfazl Zarjou, MD, PhD,1,2,* and

[HMOX1 - Wikipedia](#)

HMOX1 (heme oxygenase (deacyclng) 1) is a human gene that encodes for the enzyme heme oxygenase 1 (EC 1.14.99.3). Heme oxygenase mediates the first step of heme catabolism; it cleaves heme to form biliverdin.

[Heme oxygenase in pregnancy and preeclampsia](#)

Recent findings. New studies looking at heme oxygenase depletion in a variety of animal models have demonstrated that the heme oxygenase system is an important regulator of placental development, particularly in vascular structure.

[Heme oxygenase-1 in renal injury: Conclusions of studies ...](#)

Heme, a ferroporphyrin, derived from various hemoproteins, is catabolized by the enzyme heme oxygenase 1-4. It degrades heme to biliverdin, which is metabolized by biliverdin reductase to bilirubin. The catabolism of heme to biliverdin by heme oxygenase requires oxygen and the reduced form of nicotinamide-adenine dinucleotide phosphate (NADPH).

[Heme oxygenase - an overview | ScienceDirect Topics](#)

Heme oxygenase 1 (HO-1) is the initial as well as the rate-limiting enzyme for microsomal heme degradation and catalyzes heme breakdown to form biliverdin, iron, and carbon monoxide, and requires electrons from P450 reductase for activity [37,162-164].

[Heme oxygenase-1: emerging target of cancer therapy](#)

Heme oxygenase-1 (HO-1) is a rate-limiting enzyme catalyzing oxidative degradation of cellular heme to liberate free iron, carbon monoxide (CO) and biliverdin in mammalian cells. In addition to its primary role in heme catabolism, HO-1 exhibits anti-oxidative and anti-inflammatory functions via the