

HO-1 Protein, Mouse (His)

Cat. No.:	HY-P700495
Synonyms:	rHuHeme oxygenase 1/HO-1; Heme Oxygenase 1; HO-1; HMOX1; HO; HO1
Species:	Mouse
Source:	P. pastoris
Accession:	P14901 (M1-M289)
Gene ID:	15368
Molecular Weight:	Approximately 35 KDa

PROPERTIES

AA Sequence	<pre> MERPQPDSMP QDLSEALKEA TKEVHIQAEN AEFMKNFQKG QVSREGFKLV MASLYHIYTA LEEEIERNKQ NPVYAPLYFP EELHRRRAALE QDMAFWYGPH WQEIIPCTPA TQHYVKRLHE VGRTHPELLV AHAYTRYLGD LSGGQVLKKI AQKAMALPSS GEGLAFFTFP NIDSPTKFKQ LYRARMNTLE MTPEVKHRVT EEAKTAFLLN IELFEELQVM LTEEHKDQSP SQMASLRQRP ASLVQDTAPA ETPRGKPKIS TSSSQTPLLQ WVLTLSFLLA TVAVGIYAM </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>HO-1 protein, through its catalytic activity, orchestrates the oxidative cleavage of heme at the alpha-methene bridge carbon, leading to the release of carbon monoxide (CO) and the generation of biliverdin IXα. Simultaneously, it liberates the central heme iron chelate as ferrous iron. This enzymatic process not only provides a mechanism for the breakdown of heme but also exerts a cytoprotective effect by preventing the sensitization of cells to programmed cell death or apoptosis. The ability of HO-1 to catabolize free heme underscores its crucial role in cellular defense mechanisms, contributing to cell</p>
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survival and protection against various stressors.

Caution: Product has not been fully validated for medical applications. For research use only.

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