Product Data Sheet

HO-1 Protein, Mouse (His)

Cat. No.: HY-P700495

Synonyms: rHuHeme oxygenase 1/HO-1; Heme Oxygenase 1; HO-1; HMOX1; HO; HO1

Species:

P. pastoris Source:

P14901 (M1-M289) Accession:

Gene ID: 15368

Molecular Weight: Approximately 35 KDa

PROPERTIES

AA Sequence	
72.004.000	MERPQPDSMP QDLSEALKEA TKEVHIQAEN AEFMKNFQKG
	QVSREGFKLV MASLYHIYTA LEEEIERNKQ NPVYAPLYFP
	EELHRRAALE QDMAFWYGPH WQEIIPCTPA TQHYVKRLHE
	VGRTHPELLV AHAYTRYLGD LSGGQVLKKI AQKAMALPSS
	GEGLAFFTFP NIDSPTKFKQ LYRARMNTLE MTPEVKHRVT
	EEAKTAFLLN IELFEELQVM LTEEHKDQSP SQMASLRQRP
	ASLVQDTAPA ETPRGKPQIS TSSSQTPLLQ WVLTLSFLLA
	TVAVGIYAM
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μm filtered solution of Tris-based buffer,50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH2O.
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.

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Shipping

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 IXalpha. 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

survival and protection against various stressors.

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

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