
Product Data Sheet

Product Name: HMOX1 Human
 Cat. No.: GP21795
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HO-1; HSP32; bK286B10; HMOX-1; Heme oxygenase 1; HMOX1; HO; HO1.		
Amino Acid Sequence	MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALEQDLAFWYGPR WQEVIPYTPA MQRYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQLYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA SNKVQDSAPV ETPRGKPPLN TRSQAPLEHHHHHH.		
Formulation	HMOX1 1 mg/ml solution containing 20mM Tris-HCl pH-8, 50mM NaCl, 0.1mM PMSF and 10% glycerol.		

Introduction

HMOX1 cleaves the heme ring at the alpha methene bridge to form Biliverdin. Biliverdin is then converted to Bilirubin by Biliverdin reductase. In physiological state, the highest activity of HMOX1 is found in the spleen, where senescent erythrocytes are sequestered and destroyed. Heme Oxygenase-1 is involved in the regulation of cardiovascular function and its adaptive response to a variety of stressors. HMOX1 is induced in the colon of ulcerative colitis. HMOX1 is found to overexpress with a higher extent of intraplaque angiogenesis implies a multi-faceted role for HMOX1 in modulating the progression of atherosclerosis. HMOX1 expression reduced LPS-stimulated secretion of MCP-1, IL-6, IL-10, and TNF-alpha in murine and human macrophages.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HO-1 Human Recombinant protein produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 274 amino acids (1-266) and having a molecular mass of 31.4 kDa. HO-1 is fused to an 8 amino acid His Tag at C-Terminus and purified by proprietary chromatographic techniques.

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