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HMOX1 Human

Catalog #:ENPS-399

For research use only.

Description: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 8 amino acid His Tag at C-Terminus and purified by proprietary chromatographic techniques.

Synonyms:HO-1, HSP32, bK286B10, HMOX-1, Heme oxygenase 1, HMOX1, HO, HO1.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MERPQPHSMP QDLSEALKEA TKEVHTQAEN AEFMRNFQKG QVTRDGFKLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALEQDLAFWYGPR WQEVIPYTPA MQRYVKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQKALDLPSS GEGLAFFTFP NIASATKFKQLYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAP

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
HMOX1 1 mg/ml solution containing 20mM Tris-HCl pH-8, 50mM NaCl, 0.1mM PMSF and 10% glycerol.

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

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 sequestrated 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.

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