

HMOX1 Protein, Human, Recombinant (His)

General Information

Synonyms: HO;HO-1;HMOX1;HO1;Heme oxygenase 1

Protein Construction: 3-288 aa

Species: Human

Expression Host: E. coli

Accession: P09601

Molecular Weight: 36.6 kDa (predicted)

AA Sequence: RPQPDSMPQDLSEALKEATKEVHTQAENAEFMRNFQKGVTRDGFKLVMASLYHIYVALEEEIERNKESPVF
APVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSGGQV
LKKIAQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMSLEMTPAVRQRVIEEAKTAFLLNIQLFEELQELLT
HDTKDQSPSRAPGLRQRASNKVQDSAPVETPRGKPLNTRSQAPLLRWVLTLSFLVATVAVGLYAM

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis.

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