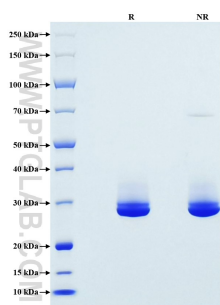


# Recombinant Mouse HO-1/HMOX1 protein (His Tag)

Catalog Number: Eg0938

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Mouse HO-1 protein Met1-Thr266 (Accession# P14901) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 15368</p> <p><b>Accession:</b> P14901</p> <p><b>Predicted Molecular Mass:</b> 31.2 kDa</p> <p><b>SDS-PAGE:</b> 27-30 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Heme oxygenase (HMOX1) catalyzes the first and rate-limiting step in the degradation of heme to yield equimolar quantities of biliverdin I<math>\alpha</math>, carbon monoxide (CO), and iron. It has 3 isoforms: HO-1 is highly inducible, whereas HO-2 and HO-3 are constitutively expressed. Heme oxygenase-1 (HO-1) is expressed in many tissues vascular smooth muscle cells, and endothelial cells and has been identified as an important endogenous protective factor induced in many cell types by various stimulants, such as hemolysis, inflammatory cytokines, oxidative stress, heat shock, heavy metals and endotoxin.</p>		
References	<ol style="list-style-type: none"><li>1. Ma, T.et al. (2016). Exp Eye Res146,318-329.</li><li>2.Loboda, A.et al. (2016). Cell MolLife Sci73,3221-47.</li><li>3. Blann, AD.et al. (2011). Prostate Cancer Prostatic Dis14,114-7.</li></ol>		
Synonyms	Hmox1, HO-1, D8Wsu38e, heme oxygenase (decycling) 1, Hemox		

## Selected Validation Data



Purity of Recombinant Mouse HO-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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