

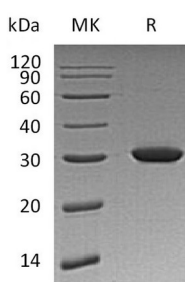
Product Name: Recombinant Human HO-1
Catalog #: PEH0803



Summary

Name	HO-1/HMOX1/HSP32
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Heme Oxygenase 1 is produced by our E.coli expression system and the target gene encoding Met1-Thr261 is expressed.
Accession #	P09601
Host	E.coli
Species	Human
Predicted Molecular Mass	29.86 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 1mM EDTA, pH 7.4.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names Heme Oxygenase 1; HO-1; HMOX1; HO; HO1

Background Heme Oxygenase 1 (HO-1) is an enzyme in endoplasmic reticulum that belongs to the heme oxygenase family. HO-1 cleaves the heme ring at the alpha methene bridge to form Biliverdin. Biliverdin is subsequently converted to Bilirubin by Biliverdin reductase. In physiological state, the highest activity of HO-1 is found in

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the spleen, where senescent erythrocytes are sequestered and destroyed. HO-1 activity is highly inducible by its substrate heme and by various non-heme substances such as heavy metals, bromobenzene, endotoxin, oxidizing agents and UVA. HO-1 is involved in the regulation of cardiovascular function and response to a variety of stressors. Defects in HO-1 are the cause of Heme Oxygenase 1 deficiency, resulting in marked erythrocyte fragmentation and intravascular hemolysis, coagulation abnormalities, endothelial damage, and iron deposition in renal and hepatic tissues.

Note

For Research Use Only , Not for Diagnostic Use.