

Recombinant Human Heme Oxygenase (decycling) 1, GST-tagged

Cat. No. HMOX1-1597H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human HMOX1 was expressed in E. coli cells using an N-terminal GST tag
Species	Human
Source	E.coli
Description	HMOX1 (Heme oxygenase 1) catalyzes the oxidative cleavage of heme to biliverdin and is one of the main genes controlling heme synthesis and catabolism. HMOX1 plays a protective role in various disorders and can ameliorate experimental MN via multiple pathways, including anti-oxidative and immunomodulatory effects.
Applications	Western Blot
Molecular Weight	56 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, PH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	>95%
Concentration	0.2 ug/ul

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Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	HIF-1-alpha transcription factor network; Iron uptake and transport; Iron uptake and transport; Keap1-Nrf2 Pathway; Mineral absorption; Mineral absorption; Oxidative Stress; Transmembrane transport of small molecules; Validated transcriptional targets of AP1 family members Fra1 and Fra2; Validated transcriptional targets of AP1 family members Fra1 and Fra2; heme degradation

GENE INFORMATION

Gene Name	HMOX1 heme oxygenase (decycling) 1 [Homo sapiens]
Official Symbol	HMOX1
Synonyms	HMOX1; heme oxygenase (decycling) 1; HO-1; HSP32; bK286B10; heme oxygenase 1; OTTHUMP00000198812; heat shock protein, 32-kD
Gene ID	3162
mRNA Refseq	NM_002133
Protein Refseq	NP_002124
MIM	141250
UniProt ID	P09601

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Chromosome Location	22q12
Function	enzyme binding; heme binding; heme oxygenase (decyclizing) activity; metal ion binding; oxidoreductase activity; phospholipase D activity; protein homodimerization activity; signal transducer activity
PDBrendering based on 1n3u.	