

Active Recombinant Human HMOX1 protein, His-tagged

Cat. No. HMOX1-138H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMOX1(Met1-Thr261) fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-261 a.a.
Predicted N Terminal	Met1
Form	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Glycerol.
Bio-activity	Measured by its ability to oxidize hemin to biliverdin. The specific activity is >5 pmol/min/µg, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 31 kDa;SDS-PAGE: 29-31 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane
Storage	Avoid repeated freeze-thaw cycles.6 months from date of receipt, -20 to -70 centigrade as supplied.3 months, -20 to -70 centigrade under sterile conditions after

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GENE INFORMATION

Gene Name	HMOX1 heme oxygenase (decycling) 1 [Homo sapiens]
Official Symbol	HMOX1
Synonyms	HMOX1; heme oxygenase (decycling) 1; heme oxygenase 1; bK286B10; HO 1; heat shock protein, 32-kD; HO-1; HSP32;
Gene ID	3162
mRNA Refseq	NM_002133
Protein Refseq	NP_002124
MIM	141250
UniProt ID	P09601
Chromosome Location	22q12
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Heme degradation, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Keap1-Nrf2 Pathway, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Mineral absorption, organism-specific biosystem;
Function	enzyme binding; heme binding; heme oxygenase (decyclizing) activity; heme

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oxygenase (decyclizing) activity; metal ion binding; oxidoreductase activity;
phospholipase D activity; protein homodimerization activity; signal transducer activity;

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