

Recombinant Human Heme Oxygenase (Decycling) 2, GST-tagged

Cat. No. HMOX2-1453H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant full-length human HO2 Protein was expressed in *E. coli* cells using an N-terminal GST tag. MW = 62 kDa.

Species

Human

Source

E. coli

Description

HO2, or heme oxygenase 2, belongs to the heme oxygenase family that are essential enzyme in heme catabolism that cleave heme to form biliverdin which is subsequently converted to bilirubin by biliverdin reductase. HO2 is part of the calcium-sensitive potassium channel complex and enhances channel activity in normoxia. Knockdown of HO2 expression reduces channel activity, an effect that is reversed by carbon monoxide. Inhibition of calcium-sensitive potassium channels by hypoxia is dependent on HO2 expression and is augmented by HO2 stimulation.

Sequence

Full-length.

Applications

Western Blot.


Storage And Stability

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.

GENE INFORMATION

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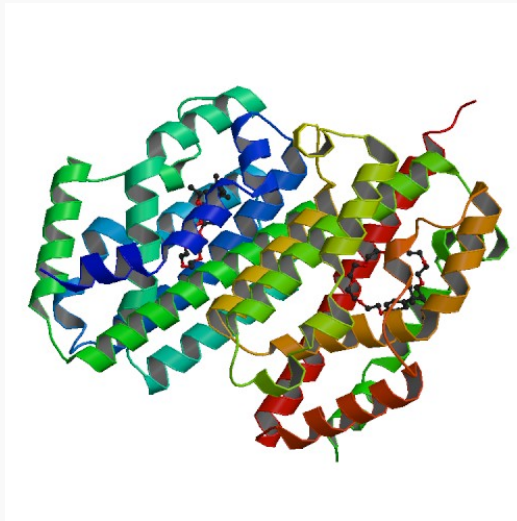
Gene Name	HMOX2 heme oxygenase (decycling) 2 [Homo sapiens]
Synonyms	HMOX2; heme oxygenase (decycling) 2; HO-2; EC 1.14.99.3; HO2; heme oxygenase (decyclizing) 2; Heme oxygenase 2
Gene ID	3163
mRNA Refseq	NM_001127204
Protein Refseq	NP_001120676
MIM	141251
UniProt ID	P30519
Chromosome Location	16p13.3
Pathway	Porphyrin and chlorophyll metabolism
Function	electron carrier activity; heme oxygenase (decyclizing) activity; iron ion binding; metal ion binding; oxidoreductase activity; protein binding

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PDB rendering based
on 2q32.



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