

# Recombinant human HO-2/HMOX2 protein

Catalog Number: ATGP0470

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-264aa

### UniProt No.

P30519

### NCBI Accession No.

NP\_002125.3

### Alternative Names

Heme oxygenase 2, Heme oxygenase 2 Heme oxygenase (decycling) 2, Heme oxygenase (decyclizing) 2, HMOX 2, HMOX2 protein, HO 2, HO2

## PRODUCT SPECIFICATION

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### Molecular Weight

30.5 kDa (264aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HMOX2 is microsomal enzyme that cleave heme ring at the alpha methane bridge to produce the antioxidant biliverdin, inorganic iron and carbon monoxide. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. This protein appears to be constitutively expressed in mammalian tissues. HMOX2 is involved in the production of carbon monoxide (CO) in brain, where CO is thought to act as a neurotransmitter. Recombinant HMOX2 protein was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

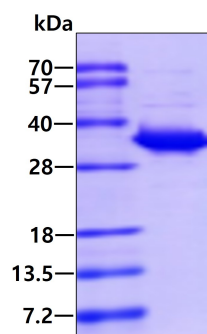
MSAEVETSEG VDESEKNSG ALEKENQMRM ADLSELLKEG TKEAHDRAEN TQFVKDFLKG NIKKELFKLA TTALYFTYSA  
LEEEMERNKD HPAFAPLYFP MELHRKEALT KDMYFFGEN WEEQVQCPKA AQKYVERIHY IGQNEPELLV AHAYTRYMGD  
LSGGQVLKKV AQRALKLPST GEGTQFYLFV NVDNAQQFKQ LYRARMNALD LNMKTKERIV EEANKAFEYN MQIFNELDQA  
GSTLARETLE DGFPVHDGKG DMRK

## General References

Baranano DE., et al. (2001) Proc Natl Acad Sci U S A. 98(20):10996-1002.  
Dore S., et al. (2002) Free Radic Biol Med. 32(12):1276-82.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.