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# Recombinant human HO-2/HMOX2 protein

Catalog Number: ATGP0470

#### PRODUCT INFORMATION

### **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

# **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**

#### **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 bilibverdin 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**

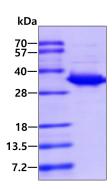
MSAEVETSEG VDESEKKNSG ALEKENQMRM ADLSELLKEG TKEAHDRAEN TQFVKDFLKG NIKKELFKLA TTALYFTYSA LEEEMERNKD HPAFAPLYFP MELHRKEALT KDMEYFFGEN WEEQVQCPKA AQKYVERIHY IGQNEPELLV AHAYTRYMGD LSGGQVLKKV AQRALKLPST GEGTQFYLFE NVDNAQQFKQ LYRARMNALD LNMKTKERIV EEANKAFEYN MQIFNELDQA GSTLARETLE DGFPVHDGKG DMRK

#### **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**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

