

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

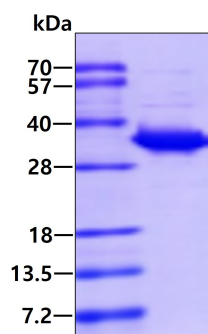
General References

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.