

## HMOX2 Human

**Description:**HMOX2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 264 amino acids (1-264 a.a.) and having a molecular mass of 30.5 kDa. HMOX2 is purified by proprietary chromatographic techniques.

Catalog #:ENPS-485

For research use only.

**Synonyms:**EC 1.14.99.3, HO2, Heme oxygenase 2, HO-2, HMOX2.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**SAEVETSEG VDESEKNSG ALEKENQMRM ADLSELLKEG  
TKEAHDRAN TQFVKDFLKG NIKKELFKLA TTALYFTYSA LEEEMERNKD HPAFAPLYFP  
MELHRKEALT KDMEYFFGEN WEEQVQCPKA AQKYVERIHY IGQNEPELLV AHAYTRYMGD  
LSGGQVLKKV AQRALKLPST GEGTQFYLFV NVDNAQQFKQ LYRARMNALD LNMKTKERIV  
EEANKAFEYN MQI

**Purity:**Greater than 90% as determined by SDS-PAGE.

**Formulation:**

HMOX2 solution containing 20mM Tris pH-8, 1mM DTT and 10% glycerol.

**Stability:**

HMOX2 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

HMOX2 cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently transferred to bilirubin by biliverdin reductase. Under physiological conditions, the activity of HMOX2 is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. HMOX2 participates in the production of carbon monoxide in the brain where it operates as a neurotransmitter. HMOX2 is an essential enzyme in heme catabolism and is involved in cellular response to oxidative stress.

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