

# Product Information

## MemDX™ Membrane Protein Human HMOX2 (Heme oxygenase 2) expressed in E. coli for Antibody Discovery

Cat. No.: **MP0007Q**

This product is for research use only and is not intended for diagnostic use.

This product is a 30.5 kDa Human HMOX2 membrane protein expressed in E. coli. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

HMOX2

#### Protein Length

Partial

#### Protein Class

Transmembrane

#### Molecular Weight

30.5 kDa

#### Sequence

MSAEVETSEGVDESEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALYFTYSALEEEME  
DGFPVHDGKG DMRK

### Product Description

#### Expression Systems

E. coli

#### Form

Powder

#### Purification

Conventional chromatography

#### Purity

>90% by SDS - PAGE

#### Buffer

20 mM Tris buffer (pH 8.0) containing 10% glycerol, 1 mM DTT

### **Storage**

Store at +4°C for up to one week or several months at -80°C

### **Target**

#### **Target Protein**

HMOX2

#### **Full Name**

Heme oxygenase 2

#### **Introduction**

Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene.

#### **Alternative Names**

HO-2; heme oxygenase 2; heme oxygenase (decycling) 2

#### **Gene ID**

[3163](#)

#### **UniProt ID**

[P30519](#)