

## Recombinant Human MPO protein, His-tagged

**Cat. No.** MPO-493H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Human MPO(165-278aa) fused with His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 165-278aa                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains and 2 heavy chains. This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. |
| <b>Molecular Mass</b>   | 17.4kD                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | VTCPEQDKYRTITGMCNNRRSPTLGASNRAFVRWLPAEYEDGFSLPYGWTPGVKR<br>NGFPVALARAVSNEIVRFPT DQLTPDQERSLMFMQWGQLLDHDLDFTPPEAARAS<br>FVTG                                                                                                                                                                                                                                                                                                                                |

### GENE INFORMATION

|                  |                                      |
|------------------|--------------------------------------|
| <b>Gene Name</b> | MPO myeloperoxidase [ Homo sapiens ] |
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| <b>Official Symbol</b>     | <a href="#">MPO</a>                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | MPO; myeloperoxidase;                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>             | <a href="#">4353</a>                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | <a href="#">NM_000250</a>                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | <a href="#">NP_000241</a>                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | <a href="#">606989</a>                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | <a href="#">P05164</a>                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 17q21.3-q23                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pathway</b>             | C-MYB transcription factor network, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; IL23-mediated signaling events, organism-specific biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Selenium Pathway, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; |
| <b>Function</b>            | chromatin binding; heme binding; heparin binding; metal ion binding; oxidoreductase activity; peroxidase activity;                                                                                                                                                                                                                                                         |