# Recombinant Full Length Human FMO2 Protein, GST-tagged

**Cat. No.** FMO2-4991HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human FMO2 full-length ORF ( NP_001451.1, 1 a.a. - 471 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 471 amino acids |
| **Description** | The flavin-containing monooxygenases are NADPH-dependent enzymes that catalyze the oxidation of many drugs and xenobiotics. In most mammals, there is a flavin-containing monooxygenase that catalyzes the N-oxidation of some primary alkylamines through an N-hydroxylamine intermediate. However, in humans, this enzyme is truncated and is probably rapidly degraded. The protein encoded by this gene represents the truncated form and apparently has no catalytic activity. A functional allele found in African Americans has been reported, but no sequence evidence has been deposited to support the finding. This gene is found in a cluster with the FMO1, FMO3, and FMO4 genes on chromosome 1. [provided by RefSeq |
| **Molecular Mass** | 80 kDa |
| **AA Sequence** | MAKKVAVIGAGVSGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQS VVTNTSKEMSCFSDFPMPEDFPNFLHNSKLLEYFRIFAKKFDLLKYIQFQTTVLSVRK CPDFSSSGQWKVVTQSNGKEQSAVFDAVMVCSGHHILPHIPLKSFPGMERFKGQY FHSRQYKHPDGFEGKRILVIGMGNSGSDIAVELSKNAAQVFISTRHGTWVMSRISED |

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| | GYPWDSVFHTRFRSMLRNVLPRTAVKWMIEQQMNRWFNHENYGLEPQNKYIMKE PVLNDDVPSRLLCGAIKVKSTVKELTETSAIFEDGTVEENIDVIIFATGYSFSFPFLEDS LVKVENNMVSLYKYIFPAHLDKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLP SERTMMMDIIKRNEKRIDLFGESQSQTLQTNYVDYLDELALEIGAKPDFCSLLFKDPK LAVRLYFGPCNSY |
| **Applications** | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| **Notes** | Best use within three months from the date of receipt of this protein. |
| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

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| **Gene Name** | FMO2 flavin containing monooxygenase 2 (non-functional) [ Homo sapiens ] |
| **Official Symbol** | FMO2 |
| **Synonyms** | FMO2; flavin containing monooxygenase 2 (non-functional); flavin containing monooxygenase 2; dimethylaniline monooxygenase [N-oxide-forming] 2; FMO 2; FMO 1B1; FMO, pulmonary; dimethylaniline oxidase 2; pulmonary flavin-containing monooxygenase 2; FMO1B1; FLJ40826; |
| **Gene ID** | 2327 |
| **mRNA Refseq** | NM_001460 |

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| **Protein Refseq** | NP_001451 |
| **MIM** | 603955 |
| **UniProt ID** | Q99518 |

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