

Recombinant Human FMO2 Protein, GST-tagged

Cat. No. FMO2-4392H **Lot. No.** (See product label)

SPECIFICATION

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	Wheat Germ
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	MAKKVAVIGAGVSGGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQS VVTNTSKEMSCFSDFPMPEDFPNFLHNSKLLEYFRIFAKKFDLLKYIQFQTTVLSVRK CPDFSSSGQWKVVTQSNGKEQSAVFDAVMVCSGHHILPHIPLKSFPGMERFKGQY FHSRQYKHPDGFEGKRILVIGMGNSGSDIAVELSKNAAQVFISTRHGTWVMSRISED GYPWDSVFHTRFRSMLRNVLPRRTAVKWMIEQQMNRWFNHNENYGLEPQNKYIMKE

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PVLNDDVPSRLLCGAIKVKSTVKELTETSAIFEDGTVEENIDVIIFATGYSFSFPFLEDS
LVKVENNMVSLYKYIFPAHLDKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLP
SERTMMMDIIKRNEKRIDLFGESQSQTLQTNVVDYLDELALEIGAKPDFCSLLFKDPK
LAVRLYFGPCNSY

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
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

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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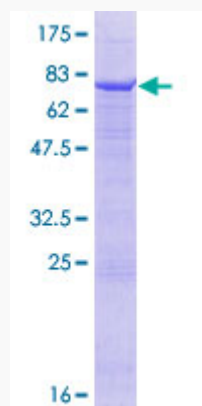
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Protein Refseq NP_001451

MIM 603955

UniProt ID Q99518

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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