

Recombinant Full Length Human FMO2 Protein, GST-tagged

Cat. No. FMO2-4991HF **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	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	MAKKVAVIGAGVSGGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQS VVTNTSKEMSCFSDFPMPEDFPNFLHNSKLLEYFRIFAKKFDLLKYIQFQTTVLSVRK CPDFSSSGQWKVVTQSNGKEQSAVFDAVMVCSGHHILPHIPLKSFPGMERFKGQY FHSRQYKHPDGFEGKRILVIGMGNSGSDIAVELSKNAAQVFISTRHGTWVMSRISED

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GYPWDSVFHTRFRSMLRNVLPRTAVKWMIEQQMNRWFNHENYGLEPQNKYIMKE
 PVLNDDVPSRLLCGAIKVKSTVKELTETSAIFEDGTVEENIDVIIFATGYSFSFPFLEDS
 LVKVENNMVSLYKYIFPAHLDKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLP
 SERTMMMDIIKRNEKRIDLFGESQSQTQLQTNVVDYLDLEALEIGAKPDFCSLLFKDPK
 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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Protein Refseq	NP_001451
MIM	603955
UniProt ID	Q99518

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