

Recombinant Full Length Human FMO3 Protein, GST-tagged

Cat. No. FMO3-1551HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human FMO3(1 a.a. - 532 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	532 amino acids
Description	Flavin-containing monooxygenases (FMO) are an important class of drug-metabolizing enzymes that catalyze the NADPH-dependent oxygenation of various nitrogen-,sulfur-, and phosphorous-containing xenobiotics such as therapeutic drugs, dietary compounds, pesticides, and other foreign compounds. The human FMO gene family is composed of 5 genes and multiple pseudogenes. FMO members have distinct developmental- and tissue-specific expression patterns. The expression of this FMO3 gene, the major FMO expressed in adult liver, can vary up to 20-fold between individuals. This inter-individual variation in FMO3 expression levels is likely to have significant effects on the rate at which xenobiotics are metabolised and, therefore, is of considerable interest to the pharmaceutical industry. This transmembrane protein localizes to the endoplasmic reticulum of many tissues. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Mutations in this gene cause the disorder trimethylaminuria (TMAu) which is characterized by the accumulation and excretion of unmetabolized trimethylamine and a distinctive body odor. In healthy individuals, trimethylamine is

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	primarily converted to the non odorous trimethylamine N-oxide.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	86.5 kDa
AA Sequence	MGKKVAIIGA GVSGLASIRS CLEEGLEPTC FEKSDIGGL WKFSDHAEEG RASIYKSVFS NSSKEMMCFP DFPFPDDFPN FMHNSKIQEY IIAFAKEKNL LKYIQFKTFV SSVNKHPDFA TTGQWDVTTE RDGKKESAVF DAVMVCSGHH VYPNLPKESF PGLNHFKGKC FHSRDYKEPG VFNGKRVLVV GLGNSGCDIA TELSRTAEQV MISSRSGSWV MSRVWDNGYP WDMLLVTRFG TFLKNNLPTA ISDWLYMKQM NARFKHENYG LMPLNGVLRK EPVFNDLPA SILCGIVSVK PNVKEFTETS AIFEDGTIFE GIDCVIFATG YSFAYPFLDE SIKSRNNEI ILFKGVFPPL LEKSTIAVIG FVQSLGAAIP TVDLQSRWAA QVIKGTCTLP SMEDMMNDIN EKMEKKRKWF GKSETIQTDY IVYMDELSSF IGAKPNIPWL FLTDPKLAME VYFGPCSPYQ FRLVGPGQWP GARNAILTQW DRSLKPMQTR VVGRLQKPCF FFHWLKLFAI PILLIAVFLV LT
Applications	Enzyme-linked Immunoabsorbent; Assay Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	FMO3 flavin containing monooxygenase 3 [Homo sapiens]
Official Symbol	FMO3
Synonyms	FMO3; flavin containing monooxygenase 3; dimethylaniline monooxygenase [N-oxide-forming] 3; FMO 3; FMO II; FMO form 2; dimethylaniline oxidase 3; hepatic

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flavin-containing monooxygenase 3; hepatic flavin-containing monooxygenase-3;
TMAU; FMOII; dJ127D3.1; MGC34400

Gene ID 2328

mRNA Refseq NM_001002294

Protein Refseq NP_001002294

MIM 136132

UniProt ID P31513

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