

Recombinant Human FMO5 Protein, GST-tagged

Cat. No. FMO5-4394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FMO5 full-length ORF (AAH35687, 1 a.a. - 285 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Metabolic N-oxidation of the diet-derived amino-trimethylamine (TMA) is mediated by flavin-containing monooxygenase and is subject to an inherited FMO3 polymorphism in man resulting in a small subpopulation with reduced TMA N-oxidation capacity resulting in fish odor syndrome Trimethylaminuria. Three forms of the enzyme, FMO1 found in fetal liver, FMO2 found in adult liver, and FMO3 are encoded by genes clustered in the 1q23-q25 region. Flavin-containing monooxygenases are NADPH-dependent flavoenzymes that catalyzes the oxidation of soft nucleophilic heteroatom centers in drugs, pesticides, and xenobiotics. Alternative splicing results in multiple transcript variants. [provided by RefSeq]
Molecular Mass	56.87 kDa
AA Sequence	MTKKRIAVIGGGVSGGLSSIKCCVEEGLEPVCFERTDDIGGLWRFQENPEEGRASIYK SVIINTSKEMMCFSDYPIPDHYPNFMHNAQVLEYFRMYAKEFDLLKYIRFKTTVCSVK KQPDFATSGQWEVVTESEGKKEMNVFDGVMVCTGHHTNAHLPLESFPGIEKFKGQ YFHSRDYKNPEGFTGKRVIIGIGNSGGDLAVEISQTAKQVFLSTRRGAWILNRVGDY GYPADVLFSSRLTHFIWKICGQSLANKYLEKKINQRFDEMFGCLKPKHRSKDIALTE

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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

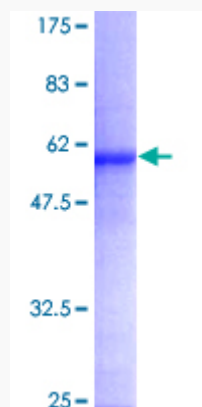
Gene Name	FMO5 flavin containing monooxygenase 5 [Homo sapiens]
Official Symbol	FMO5
Synonyms	FMO5; flavin containing monooxygenase 5; dimethylaniline monooxygenase [N-oxide-forming] 5; FMO 5; dimethylaniline oxidase 5; hepatic flavin-containing monooxygenase 5;
Gene ID	2330
mRNA Refseq	NM_001144829
Protein Refseq	NP_001138301
MIM	603957
UniProt ID	P49326

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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