

Recombinant Full Length Human FMO5 Protein, GST-tagged

Cat. No. FMO5-4992HF **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	In Vitro Cell Free System
ProteinLength	285 amino acids
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

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GYPADVLFSSRLTHFIWKICGQSLANKYLEKKINQRFDHMFGLKPKHRSKDIALTE

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

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UniProt ID

P49326

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