Recombinant Human Flavin Containing Monooxygenase 3

Cat. No. FMO3-718H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Insect Cells
Description	Dimethylaniline monooxygenase [N-oxide-forming] 3 is an enzyme that in humans is encoded by the FMO3 gene.
Biochem/physiol Actions	The FMO′s are responsible for catalyzing the oxygenation of a variety of xenobiotic and drug compounds including environmental pollutants and carcinogens which contain a nucleophilic nitrogen, sulfur, selenium, or phosphorus-containing moiety associated with their respective oxides. These enzymes are classified as Phase I or oxidative drug metabolism enzymes.
Application	FMO3 is the major human hepatic form.
Physical Form	Solution in 100 mM potassium phosphate buffer, pH 7.4.
Form	buffered aqueous solution.
Storage Temp	-70°C.

GENE INFORMATION

Gene Name	FMO3 flavin containing monooxygenase 3 [Homo sapiens]

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Synonyms	flavin containing monooxygenase 3; TMAU; FMOII; MGC34400; dJ127D3.1; FMO3; dimethylaniline monooxygenase [N-oxide-forming] 3; FMO 3; FMO II; FMO form 2; dimethylaniline oxidase 3; hepatic flavin-containing monooxygenase 3; hepatic flavin-containing monooxygenase-3;Dimethylaniline oxidase 3; Hepatic flavin-containing monooxygenase 3; EC 1.14.13.8
Gene ID	2328
mRNA Refseq	NM_001002294
Protein Refseq	NP_001002294
MIM	136132
UniProt ID	P31513
Chromosome Location	1q23-q25
Pathway	Drug metabolism - cytochrome P450; Biological oxidations
Function	FAD binding; NADP or NADPH binding; amino acid binding; flavin-containing monooxygenase activity; monooxygenase activity

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