Recombinant Human FMO1

Cat. No. FMO1-27875TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human). Expressed in insect cells infected with recombinant baculovirus (Autographa californica) containing cDNA inserts for human FMO1.
Species	Human
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.
Tissue specificity	Expressed mainly in fetal liver, adult kidney and, to a lesser extent, the intestine.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 100mM Potassium phosphate buffer, pH 7.4
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the FMO family.

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Full Length	Full L.

GENE INFORMATION

Gene Name	FMO1 flavin containing monooxygenase 1 [Homo sapiens]
Official Symbol	FMO1
Synonyms	FMO1; flavin containing monooxygenase 1; dimethylaniline monooxygenase [N-oxide-forming] 1;
Gene ID	2326
mRNA Refseq	NM_002021
Protein Refseq	NP_002012
MIM	136130
Uniprot ID	Q01740
Chromosome Location	1q24.3
Pathway	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; FMO oxidizes nucleophiles, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	NADP binding; flavin adenine dinucleotide binding; flavin-containing monooxygenase activity; flavin-containing monooxygenase activity; monooxygenase activity;

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