Recombinant Human FMO4, GST-tagged

Cat. No. FMO4-12945H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FMO4 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	24-354a.a.
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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

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Gene Name	FMO4 flavin containing monooxygenase 4 [Homo sapiens]
Official Symbol	FMO4
Synonyms	FMO4; flavin containing monooxygenase 4; FMO2; dimethylaniline monooxygenase [N-oxide-forming] 4; FMO 4; dimethylaniline oxidase 4; hepatic flavin-containing monooxygenase 4;
Gene ID	2329
mRNA Refseq	NM_002022
Protein Refseq	NP_002013
MIM	136131
UniProt ID	P31512
Chromosome Location	1q24.3
Pathway	Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; nicotine degradation II, organism-specific biosystem;
Function	N,N-dimethylaniline monooxygenase activity; NADP binding; flavin adenine dinucleotide binding; monooxygenase activity;

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