

Recombinant Full Length Human FMO1 Protein, GST-tagged

Cat. No. FMO1-6934HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length FMO1(1 aa. - 532 aa), fused with aN-terminal GST tag, was expressed in Wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	532 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.
Molecular Mass	84.26kDa
AA Sequence	MAKRVAIVGAGVSGLASIKCCLEEGLEPTCFERSDDLGGWLWRFTEHVEEGRASLYK SVVSNCKEMSCYSDFPFDPEDYPNYVPNSQFLEYLKMYANHFDLLKHIQFKTKVCS VTKCSDSAVSGQWEVVTMHEEKQESAIFDAVMVCTGFLTNPYLPLDSFPGINAFKG QYFHSRQYKHPDIFKDKRVLVIGMGNSGTDIAVEASHLAEKVFLSTTGGGWVISRIFD SGYPWDMVFMTRFQNMLRNSLPTPIVTWLMERKINNWLNHANYGLIPEDRTQLKEF

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VLNDELPGRIITGKVFIRPSIKEVKENSVIFNNTSKEEPIDIIVFATGYTFAFPFLDESVV
 KVEDGQASLYKYIFPAHLQKPTLAIIGLIKPLGSMIPTGETQARWAVRVLKGVNKLPPP
 SVMIEEINARKENKPSWFGLCYCKALQSDYITYIDELLYINAKPNLFSMLLTDPHLAL
 TVFFGPCSPYQFRLTGPGKWEGARNAIMTQWDRTFKVIKARVVQESPPFESFLKV
 FSFLALLVAIFLIFL

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 FMO1 flavin containing monooxygenase 1 [Homo sapiens]

Official Symbol FMO1

Synonyms flavin containing monooxygenase 1; FMO1; dimethylanilinemonooxygenase [N-oxide-forming] 1; FMO 1; OTTHUMP00000033537; dimethylaniline oxidase 1; Flavin-containing monooxygenase 1 (fetal liver); fetal hepatic flavin-containing monooxygenase 1; Dimethylaniline oxidase 1; Fetal hepatic flavin-containing monooxygenase 1; EC 1.14.13.8

Gene ID 2326

mRNA Refseq NM_002021

Protein Refseq NP_002012

MIM 136130

UniProt ID Q01740

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