

Recombinant Human FMO5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FMO5-2397H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FMO5 MS Standard C13 and N15-labeled recombinant protein (NP_001452) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	60 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.

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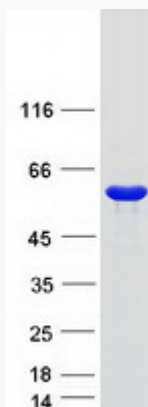
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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	FMO5 flavin containing monooxygenase 5 [Homo sapiens (human)]
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_001461
Protein Refseq	NP_001452
MIM	603957
UniProt ID	P49326

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SDS-PAGE

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