

Recombinant Full Length Human FMO5 Protein, Flag tagged

Cat. No. FMO5-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human flavin containing monooxygenase 5 (FMO5), transcript variant 1 with Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-533 aa
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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	60 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	> 0.05 µg/µL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	FMO5 flavin containing dimethylaniline monooxygenase 5 [Homo sapiens (human)]
Official Symbol	FMO5
Synonyms	FMO5; flavin containing dimethylaniline monooxygenase 5; hBVMO1; flavin-containing monooxygenase 5; FMO 5; NADPH oxidase; NAPDH oxidase; baeyer-Villiger monooxygenase 1; dimethylaniline monooxygenase [N-oxide-forming] 5; dimethylaniline oxidase 5; flavin containing monooxygenase 5; hepatic flavin-containing monooxygenase 5; EC 1.14.13.8; EC 1.6.3.1
Gene ID	2330
mRNA Refseq	NM_001461
Protein Refseq	NP_001452
MIM	603957
UniProt ID	P49326