

Product datasheet for **PH314057**

FMO5 (NM_001461) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FMO5 MS Standard C13 and N15-labeled recombinant protein (NP_001452)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214057
Predicted MW:	60 kDa
Protein Sequence:	RC214057
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001452
RefSeq Size:	2326
RefSeq ORF:	1599
Synonyms:	hBVM01
Locus ID:	2330
UniProt ID:	P49326 , A0A024QYY6
Cytogenetics:	1q21.1



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Summary:

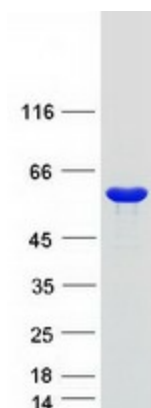
Metabolic N-oxidation of the diet-derived amino-trimethylamine (TMA) is mediated by flavin-containing monooxygenase and is subject to an inherited FMO3 polymorphism in man resulting in a small subpopulation with reduced TMA N-oxidation capacity resulting in fish odor syndrome Trimethylaminuria. Three 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. [provided by RefSeq, Jan 2009]

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Drug metabolism - cytochrome P450

Product images:

Coomassie blue staining of purified FMO5 protein (Cat# [TP314057]). The protein was produced from HEK293T cells transfected with FMO5 cDNA clone (Cat# [RC214057]) using MegaTran 2.0 (Cat# [TT210002]).