

Product datasheet for PH306506

FMO3 (NM_006894) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FMO3 MS Standard C13 and N15-labeled recombinant protein (NP_008825)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206506
Predicted MW:	59.9 kDa
Protein Sequence:	>RC206506 representing NM_006894 Red=Cloning site Green=Tags(s)

MGKKVAIIIGAGVSGLASIRSCLEEGLEPTCFEKSNDIGGLWKFSDHAEGRASIYKSVFSNSSKEMMCFP
DFFPDPPNFMHNSKIQEYIIAFAKEKNLLKYIQFKTFVSSVNKHPDFATTGQWDVTTTERDGKKE SAVF
DAYMVCSGHHVYPNLPKESFPGLNHFKGKCFHSRDYKEPGVFNGKRVLVVG LGNSGCDIATELSRTAEQV
MISSRSGSWMSRVWDNGYPWDMLLVTRFGTFLKNNLPTAISDWLYMQMNA RFKHENYGLMPLNGVLRK
EPVFNDELPA SILCGIVSVKPNVKEFTETSAIFEDGTIFEGIDCVIFATGYSFAYPFLDESIKSRNNEI
ILFKGVFPPLLEKSTIAVIGFVQSLGAAIPTVDLQSRWAAQVIKGTCTLP SMEDMMNDINEKMEKKRKF
GKSETIQTDYIVYMDLSSFIGAKPNIPWFL TDPKLAMEVYFGPCSPYQFRLVGPGQWPGARNAILTQW
DRSLKPMQTRVVGRLQKPCFFHWLKLF AIPILLI AVFLVLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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:	<u>NP_008825</u>
RefSeq Size:	2053
RefSeq ORF:	1596



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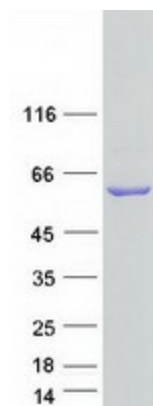
Synonyms: dj127D3.1; FMOII; TMAU
Locus ID: 2328
UniProt ID: [P31513](#), [A0A024R8Z4](#), [Q53FW5](#)
Cytogenetics: 1q24.3

Summary: Flavin-containing monooxygenases (FMO) are an important class of drug-metabolizing enzymes that catalyze the NADPH-dependent oxygenation of various nitrogen-, sulfur-, and phosphorous-containing xenobiotics such as therapeutic drugs, dietary compounds, pesticides, and other foreign compounds. The human FMO gene family is composed of 5 genes and multiple pseudogenes. FMO members have distinct developmental- and tissue-specific expression patterns. The expression of this FMO3 gene, the major FMO expressed in adult liver, can vary up to 20-fold between individuals. This inter-individual variation in FMO3 expression levels is likely to have significant effects on the rate at which xenobiotics are metabolised and, therefore, is of considerable interest to the pharmaceutical industry. This transmembrane protein localizes to the endoplasmic reticulum of many tissues. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Mutations in this gene cause the disorder trimethylaminuria (TMAU) which is characterized by the accumulation and excretion of unmetabolized trimethylamine and a distinctive body odor. In healthy individuals, trimethylamine is primarily converted to the non odorous trimethylamine N-oxide.[provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Drug metabolism - cytochrome P450

Product images:



Coomassie blue staining of purified FMO3 protein (Cat# [TP306506]). The protein was produced from HEK293T cells transfected with FMO3 cDNA clone (Cat# [RC206506]) using MegaTran 2.0 (Cat# [TT210002]).