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Product datasheet for PH303237

FMO2 (NM_001460) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FMO2 MS Standard C13 and N15-labeled recombinant protein (NP_001451)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203237
Predicted MW:	53.6 kDa
Protein Sequence:	>RC203237 protein sequence Red=Cloning site Green=Tags(s) MAKKVAVIGAGVSGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQSVVTNTSKEMSCFS DFPMPEDFPNFLHNSKLLEYFRIFAKKFDLLKYIQFQTTVLSVRKCPDFSSSGQWKVVTQSNGKEQSAVF DAVMVCSGHHILPHIPLKSFPGMERFKGQYFHSRQYKHPDGFEGKRILVIGMGNSGSDIAVELSKNAAQV FISTRHGTWVMSRISEDGYPWDSVFHTRFRSMLRNVLPRTAVKWMIEQQMNRWFNHENYGLEPQNKYIMK EPVLNDDVPSRLLCGAIKVKSTVKELTETSAIFEDGTVEENIDVIIFATGYSFSFPFLEDSLVKVENNMV SLYKYIFPAHLDKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLPSERTMMMDIIKRNEKRIDLF GESQSQTLQTNYVDYLDELALEIGAKPDFCSLLFKDPKLAVRLYFGPCNSY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_001451
RefSeq Size:	5304
RefSeq ORF:	1413
Synonyms:	FMO1B1

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Locus ID: 2327

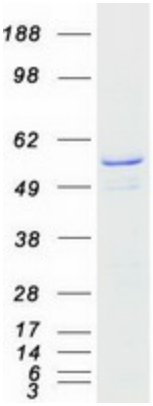
UniProt ID: Q99518, Q5JPC7

Cytogenetics: 1q24.3

Summary: This gene encodes a flavin-containing monooxygenase family member. It is an NADPH-dependent enzyme that catalyzes the N-oxidation of some primary alkylamines through an N-hydroxylamine intermediate. However, some human populations contain an allele (FMO2*2A) with a premature stop codon, resulting in a protein that is C-terminally-truncated, has no catalytic activity, and is likely degraded rapidly. This gene is found in a cluster with other related family members on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

Protein Pathways: Drug metabolism - cytochrome P450

Product images:



Coomassie blue staining of purified FMO2 protein (Cat# [TP303237]). The protein was produced from HEK293T cells transfected with FMO2 cDNA clone (Cat# [RC203237]) using MegaTran 2.0 (Cat# [TT210002]).