

Recombinant Human FMO2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FMO2-3131H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FMO2 MS Standard C13 and N15-labeled recombinant protein (NP_001451) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	53.6 kDa
AA Sequence	MAKKVAVIGAGVSGGLISLKCCVDEGLEPTCFERTEDIGGVWRFKENVEDGRASIYQS VVTNTSKEMSCFSDFPMPEDFPNFLHNSKLLEYFRIFAKKFDLLKYIQFQTTVLSVRK CPDFSSSGQWKVVTQSNGKEQSAVFDAVMVCSGHHILPHIPLKSFPGMERFKGQY FHSRQYKHPDGFEGKRILVIGMGNSGSDIAVELSKNAAQVFISTRHGTWVMSRISED GYPWDSVFHTRFRSMLRNVLPRRTAVKWMIEQQMNRWFNHNENYGLEPQNKYIMKE PVLNDDVPSRLLCGAIKVKSTVKELTETSAIFEDGTVEENIDVIIFATGYSFSFPFLEDS

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LVKVENNMVSLYKYIFPAHLDKSTLACIGLIQPLGSIFPTAELQARWVTRVFKGLCSLP
SERTMMMDIIKRNEKRIDLFGEQSQTTLQTNVVDYLDLEALEIGAKPDFCSLLFKDPK
LAVRLYFGPCNSYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

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 FMO2 flavin containing dimethylaniline monooxygenase 2 [Homo sapiens (human)]

Official Symbol FMO2

Synonyms FMO2; flavin containing monooxygenase 2 (non-functional); flavin containing monooxygenase 2; dimethylaniline monooxygenase [N-oxide-forming] 2; FMO 2; FMO 1B1; FMO, pulmonary; dimethylaniline oxidase 2; pulmonary flavin-containing monooxygenase 2; FMO1B1; FLJ40826;

Gene ID 2327

mRNA Refseq NM_001460

Protein Refseq NP_001451

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MIM 603955

UniProt ID Q99518

SDS-PAGE



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