

Recombinant Human FMO4 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. FMO4-407H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FMO4 MS Standard C13 and N15-labeled recombinant protein (NP_002013) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Metabolic N-oxidation of diet-derived amino-trimethylamine (TMA) is mediated by flavin-containing monooxygenase and is subject to an inherited FMO3 polymorphism in man. This results in a small subpopulation with reduced TMA N-oxidation capacity and causes fish odor syndrome (Trimethylaminuria). Three forms of the enzyme 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. [provided by RefSeq, Jan 2015]
Molecular Mass	63.3 kDa
AA Sequence	MAKKVAVIGAGVSGLSSIKCCVDEDLEPTCFERSDDIGGLWKFTESSKDG MTRVYK SLVTNVCKEMSCYSDFPFHEDYPNFMNHEKFWDYLQEFAEHFDLLKYIQFKTTVCSI TKRPDFSETGQWDVVTETEGKQNRVFDVAVMVCTGHFLNPHLPLEAFPGIHKFKGQ ILHSQEYKIPEGFQGKRVLVIGLGNTGGDIAVELSR TAAQVLLSTRGTWVLGRSSD WGYPYNMMVTRRCCSFIAQVLPSRFLNWIQERKLNKRFNHEDYGLSITKGKKAKFIV

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NDELPNCILCGAITMKTSVIEFTETSAVFEDGTVEENIDVVIFTTGYTFSFPFFEEPLKS
 LCTKKIFLYKQVFPLNLERATLAIIGLIGLKGSILSGTELQARWVTRVFKGLCKIPPSQK
 LMMEATEKEQLIKRGVFKDTSKDKFDYIAYMDDIAACIGTKPSIPLLFLKDPRLAWEVF
 FGPCTPYQYRLMGPWKWDGARNAILTQWDRTLKPLKTRIVPDSSKPASMSHYLKA
 WGAPVLLASLLICKSSLFLKLVRDKLQDRMSPYLVSLWRGSGPTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

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 FMO4 flavin containing monooxygenase 4 [Homo sapiens (human)]

Official Symbol FMO4

Synonyms FMO4; flavin containing monooxygenase 4; FMO2; dimethylaniline monooxygenase [N-oxide-forming] 4; FMO 4; dimethylaniline oxidase 4; hepatic flavin-containing monooxygenase 4;

Gene ID 2329

mRNA Refseq NM_002022

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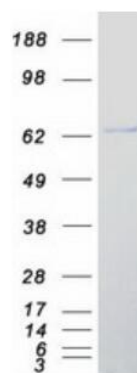
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Protein Refseq NP_002013

MIM 136131

UniProt ID P31512

SDS-PAGE



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