

Product datasheet for **TP301181M**

Flavin containing monooxygenase 4 (FMO4) (NM_002022) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human flavin containing monooxygenase 4 (FMO4), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201181 protein sequence Red =Cloning site Green =Tags(s)

MAKKVAVIGAGVSGLSSIKCCVDEDLEPTCFERSDDIGGLWKFTESSKDG MTRVYKSLVTNVCKEMSCYS
DFPFHEDYPNFMNHEKFWDY LQFAEHFDLLKYIQFKTTVCSITKRPDFSETGQWDVVTETEGKQNRVAF
DAVMVCTGHFLNPHLPLEAFPGIHKFKGQILHSQEYKIPEGFQGKRVLVIGLGNTGGDIAVELSR TAAQV
LLSTRGTWVLGRSSDWGYPYNNMMVTRRCCSFIAQVLP SRFLNWIQERKLNKRFNHEDYGLSITKGGKAK
FIVNDELPCILCGAITMKT SVIEFTETSAVFEDGTVEENIDWIFTTGYTFSFPFFEEPLKSLCTKKIF
LYKQVFPLNLERATLAIIGLIGLKG SILSGTELQARWVTRVFKGLCKIPPSQKLMMEATEKEQLIKRGVF
KDTSKDKFDYIAYMDDIAACIGTKPSIPLFLKDPRLAWEVFFGPCTPYQYRLMGP GKWDGARNAILTQW
DRTLKPLKTRIVPDSSKPASMSHYLKAWGAPVLLASLL LICKSSFLKLVRDKLQDRMSPYLVSLWRG

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	63.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_002013](#)

Locus ID: 2329

UniProt ID: [P31512](#)

RefSeq Size: 2148

Cytogenetics: 1q24.3

RefSeq ORF: 1674

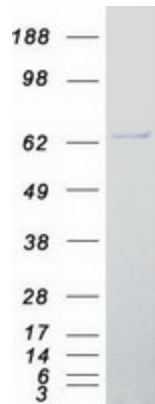
Synonyms: FMO2

Summary: 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]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Drug metabolism - cytochrome P450

Product images:



Coomassie blue staining of purified FMO4 protein (Cat# [TP301181]). The protein was produced from HEK293T cells transfected with FMO4 cDNA clone (Cat# [RC201181]) using MegaTran 2.0 (Cat# [TT210002]).