



# Recombinant Human Dimethylaniline monooxygenase [N-oxide-forming] 2 (FMO2)

<b>Product Code</b>	CSB-EP857449HU
<b>Abbreviation</b>	FMO2
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q99518
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AKKVAVIGA GVSGLISLKC CVDEGLEPTC FERTEDIGGV WRFKENVEDG RASIYQSVVT NTSKEMSCFS DFPMPEDFPN FLHNSKLLEY FRIFAKKFDL LKYIQFQTTV LSVRKCPDFS SSGQWKVVTQ SNGKEQSAVF DAVMVCSGHH ILPHIPLKSF PGMERFKGQY FHSRQYKHPD GFEGKRILVI GMGNSGSDIA VELSKNAAQV FISTRHGTWV MSRISEGGYP WDSVFHTRFR SMLRNVLPRT AVKWMIEQQM NRWFNHENYG LEPQNKYIMK EPLVNDDEVPS RLLCGAIKVK STVKELTETS AIFEDGTVEE NIDVIIFATG YSFSFPFLED SLVKVENNMV SLYKYIFPAH LDKSTLACIG LIQPLGSIFP TAELQARWWT RVFKGLCSLP SERTMMMDII KRNEKRIDLF GESQSQTLQT NYVDYLDELA LEIGAKPDFC SLLFKDPKLA VRLYFGPCNS Y
<b>Source</b>	E.coli
<b>Target Names</b>	FMO2
<b>Protein Names</b>	Recommended name: Dimethylaniline monooxygenase [N-oxide-forming] 2 EC=1.14.13.8 Alternative name(s): Dimethylaniline oxidase 2 FMO 1B1 Pulmonary flavin-containing monooxygenase 2 Short name= FMO 2
<b>Expression Region</b>	2-471
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	The flavin-containing monooxygenases are NADPH-dependent enzymes that catalyze the oxidation of many drugs and xenobiotics. In most mammals, there is a flavin-containing monooxygenase that catalyzes the N-oxidation of some primary alkylamines through an N-hydroxylamine intermediate. However, in humans, this enzyme is truncated and is probably rapidly degraded. This protein represents the truncated form and apparently has no catalytic activity. A functional allele found in African Americans has been reported, but no sequence



evidence has been deposited to support the finding. This gene is found in a cluster with the FMO1, FMO3, and FMO4 genes on chromosome 1.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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