

Recombinant Human FMO1 Protein, His-tagged

Cat. No. FMO1-240H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FMO1(Ala2~Leu271) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala2~Leu271
Description	Metabolic N-oxidation of the diet-derived amino-trimethylamine (TMA) is mediated by flavin-containing monooxygenase and is subject to an inherited FMO3 polymorphism in man resulting in a small subpopulation with reduced TMA N-oxidation capacity resulting in fish odor syndrome Trimethylaminuria. Three forms of the enzyme, FMO1 found in fetal liver, FMO2 found in adult liver, and FMO3 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. Several transcript variants encoding different isoforms have been found for this gene.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	34.3kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 98%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	FMO1 flavin containing monooxygenase 1 [Homo sapiens]
Official Symbol	FMO1
Synonyms	FMO1; flavin containing monooxygenase 1; dimethylaniline monooxygenase [N-oxide-forming] 1; FMO 1; dimethylaniline oxidase 1; Flavin-containing monooxygenase 1 (fetal liver); fetal hepatic flavin-containing monooxygenase 1;
Gene ID	2326
mRNA Refseq	NM_002021
Protein Refseq	NP_002012

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MIM	136130
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UniProt ID	Q01740
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