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Creative **Biolabs** ®

Product Information

MemDX™ Membrane Protein Human FMO4 (Flavin containing dimethylaniline monoxygenase 4) Expressed *in vitro E.coli* expression system, Full Length of Mature Protein

Cat. No.: **MPX1913K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human FMO4 membrane protein expressed *in vitro E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
FMO4

Protein Length
Full Length of Mature Protein

Protein Class
Oxidoreductase

TMD
1

Sequence
AKKVAVIGAGVSGLSSIKCCVDEDLEPTCFERSDDIGGLWKFTESSKDGMTRVYKSLVTNVCKEMSCYSDFPFHEDYPNFMNHEKF

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

FMO4

Full Name

Flavin containing dimethylaniline monoxygenase 4

Introduction

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.

Alternative Names

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

Gene ID

2329

UniProt ID

P31512