Dimethylaniline Monooxygenase [N-Oxide-Forming] 3 (FMO3) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dimethylaniline monooxygenase [N-oxide-forming] 3 (FMO3), Recombinant Protein
Full Product Name	Recombinant Bovine Dimethylaniline monooxygenase [N-oxide-forming] 3 (FMO3) , partial
Product Gene Name	FMO3 recombinant protein
Product Synonym Gene Name	FMO3
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	60,093 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8HYJ9
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FMO3 recombinant protein	MBS1448046 is a recombinant protein targeting FMO3. Also known as Recombinant Bovine Dimethylaniline monooxygenase [N-oxide-forming] 3 (FMO3) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of FMO3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FMO3. It may not necessarily be applicable to this product.

NCBI GI #	27806629
NCBI GeneID	281167
NCBI Accession #	NP_776482.1
UniProt Primary Accession #	Q8HYJ9
UniProt Related Accession #	Q8HYJ9
GenBank Nucleotide #	NM_174057.2
NCBI Official Full Name	dimethylaniline monooxygenase
NCBI Official Synonym Full Names	flavin containing monooxygenase 3
NCBI Official Symbol	FMO3

NCBI Official Synonym Symbols	FM03
UniProt Protein Name	Dimethylaniline monooxygenase [N-oxide-forming] 3
UniProt Synonym Protein Names	Dimethylaniline oxidase 3; Hepatic flavin-containing monooxygenase 3; FMO 3; Trimethylamine monooxygenase (EC:1.14.13.148)
Protein Family	Dimethylaniline monooxygenase
UniProt Gene Name	FMO3
UniProt Synonym Gene Names	FMO 3
NCBI Protein Information	dimethylaniline monooxygenase [N-oxide-forming] 3
UniProt Comments for FMO3	Involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides. It N-oxygenates primary aliphatic alkylamines as well as secondary and tertiary amines. Acts on TMA to produce TMA-N-oxide.
Research Articles on FMO3	**1.** Fishy off-flavor in cow's milk is caused by a nonsense mutation (R238X) in FMO3, found to be surprisingly common (q = 0.155) in the Swedish Red and White breed of dairy cattle.
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