

Recombinant Mouse Fmo3 Protein, Myc/DDK-tagged

Cat. No. Fmo3-3054M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length flavin containing monooxygenase 3 (Fmo3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Essential hepatic enzyme that catalyzes the oxygenation of a wide variety of nitrogen- and sulfur-containing compounds including drugs as well as dietary compounds. Plays an important role in the metabolism of trimethylamine (TMA), via the production of trimethylamine N-oxide (TMAO) metabolite. TMA is generated by the action of gut microbiota using dietary precursors such as choline, choline containing compounds, betaine or L-carnitine. By regulating TMAO concentration, FMO3 directly impacts both platelet responsiveness and rate of thrombus formation.
Molecular Mass	61 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Fmo3 flavin containing monooxygenase 3 [Mus musculus (house mouse)]

Official Symbol Fmo3

Synonyms FMO3; flavin containing monooxygenase 3; dimethylaniline monooxygenase [N-oxide-forming] 3; FMO 3; dimethylaniline oxidase 3; hepatic flavin-containing monooxygenase 3; AW111792

Gene ID 14262

mRNA Refseq NM_008030

Protein Refseq NP_032056

UniProt ID P97501

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