

Recombinant Mouse Xdh protein, His/T7-tagged

Cat. No. Xdh-15M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Xdh(Phe231~Lys416) fused with His/T7 tag at N-terminal was expressed in E. coli.

Species Mouse

Source E.coli

ProteinLength 231-416 a.a.

Description This gene encodes a member of the xanthine dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein exists as two distinct enzymatic forms, either as xanthine dehydrogenase, or as xanthine oxidase, and functions in purine degradation. Additional studies also suggest a role in adipogenesis, and a function as a structural protein in milk fat droplets in the lactating mammary gland.

Form Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.

Molecular Mass 24.3kDa

AA Sequence
 FEGERVTVIQ VSTMEEELDL KAQHPDAKLV VGNTEIGIEM KFKNMLFPLI
 ICPAWILELT SVAHGPEGIS FGAACPLSLV ESVLADAIAT LPEQRTEVFR
 GVMEQLRWFA GKQVKSVASI GGNITASPI SDLNPVLMAS RAKLTLASRG
 TKRTVWMDHT FFPGYRRTLL SPEEILVSIV IPYSRK

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
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 sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Xdh xanthine dehydrogenase [Mus musculus]
Official Symbol	Xdh
Synonyms	XDH; xanthine dehydrogenase; xanthine dehydrogenase/oxidase; xanthine oxidase; XO; Xor; Xox1; Xox-1;
Gene ID	22436
mRNA Refseq	NM_011723
Protein Refseq	NP_035853
MIM	
UniProt ID	Q00519
Chromosome Location	17 E2; 17 45.25 cM

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Pathway

Caffeine metabolism, organism-specific biosystem; Caffeine metabolism, conserved biosystem; Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Folic Acid Network, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

2 iron, 2 sulfur cluster binding; UDP-N-acetylmuramate dehydrogenase activity; catalytic activity; electron carrier activity; flavin adenine dinucleotide binding; iron ion binding; iron-sulfur cluster binding; metal ion binding; molybdenum ion binding; molybdopterin cofactor binding; oxidoreductase activity; oxidoreductase activity, acting on CH-OH group of donors; protein binding; protein homodimerization activity; xanthine dehydrogenase activity; xanthine dehydrogenase activity; xanthine oxidase activity;

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