PRODH2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PRODH2, Lysate
Full Product Name	Human PRODH2 Protein Lysate
Product Gene Name	PRODH2 lysate
Product Synonym Names	PRODH2; HSPOX1; HSPOX1; HYPDH
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	59kDa
3D Structure	ModBase 3D Structure for Q9UF12
Related Product Information for PRODH2 lysate	Human PRODH2 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of PRODH2 lysate 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.
Searchable Terms for PRODH2 purchase	MBS8417831 is a lysate targeting PRODH2. Also known as Human PRODH2 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRODH2. It may not necessarily be applicable to this product.

NCBI GI #	10864043
NCBI GeneID	58510
NCBI Accession #	NP_067055
UniProt Primary Accession #	Q9UF12
UniProt Related Accession #	Q9UF12
GenBank Nucleotide #	NM_021232
NCBI Official Full Name	hydroxyproline dehydrogenase
NCBI Official Synonym Full Names	proline dehydrogenase 2
NCBI Official Symbol	PRODH2
NCBI Official Synonym Symbols	HYPDH; HSPOX1
UniProt Protein Name	Probable proline dehydrogenase 2
UniProt Synonym Protein Names	Kidney and liver proline oxidase 1; HsPOX1; Probable proline oxidase 2
Protein Family	Probable proline dehydrogenase

UniProt Gene Name	PRODH2
UniProt Synonym Gene Names	HsPOX1
UniProt Entry Name	PROD2_HUMAN
NCBI Protein Information	hydroxyproline dehydrogenase
NCBI Summary for PRODH2	The protein encoded by this gene catalyzes the first step in the catabolism of trans-4-hydroxy-L-proline, an amino acid derivative obtained through food intake and collagen turnover. One of the downstream products of this catabolism is glyoxylate, which in people with disorders of glyoxalate metabolism can lead to an increase in oxalate levels and the formation of calcium-oxalate kidney stones. Therefore, this gene may serve as a therapeutic target against primary hyperoxalurias (PH). This gene is similar to proline dehydrogenase (oxidase) 1, a mitochondrial enzyme that catalyzes the first step in proline catabolism. [provided by RefSeq, Jan 2017]
Research Articles on PRODH2	**1.** Data suggest that residues 157-515 of PRODH2 contain catalytic core with one FAD molecule; PRODH2 most likely utilizes coenzyme Q10 as terminal electron acceptor in vivo; PRODH2 exhibits substrate specificity for hydroxyproline over proline.
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