

Product Information

MemDX™ Membrane Protein Human PLOD1 (Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1) for Antibody Discovery

Cat. No.: **MP1028X**

This product is for research use only and is not intended for diagnostic use.

This product is a 109.9 kDa Human PLOD1 membrane protein expressed in *in vitro* wheat germ 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

PLOD1

Protein Length

Full-length

Molecular Weight

109.9 kDa

Sequence

MRPLLLLALLGWLLLAELAKGDAKPEDNLLVLTVAETKETEGFRRFKRSAQFFNYKIQLGLGEDWNVEKGTSAGGGQKVRLLKKALE

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

PLOD1

Full Name

Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1

Introduction

Lysyl hydroxylase is a membrane-bound homodimeric protein localized to the cisternae of the endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VI have deficiencies in lysyl hydroxylase activity. Two transcript variants encoding different isoforms have been found for this gene.

Alternative Names

LH; LH1; LLH; EDS6; PLOD; EDSKCL1; procollagen-lysine,2-oxoglutarate 5-dioxygenase 1; lysine hydroxylase; lysyl hydroxylase 1; procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1

Gene ID

[5351](#)

UniProt ID

[Q02809](#)