

Recombinant Human PRODH

Cat. No. PRODH-31088TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PRODH with N-terminal proprietary tag. Mol Wt 36.63 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a mitochondrial protein that catalyzes the first step in proline degradation. Mutations in this gene are associated with hyperprolinemia type 1 and susceptibility to schizophrenia 4 (SCZD4). This gene is located on chromosome 22q11.21, a region which has also been associated with the contiguous gene deletion syndromes, DiGeorge and CATCH22. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed in lung, skeletal muscle and brain, to a lesser extent in heart and kidney, and weakly in liver, placenta and pancreas.
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LVRGAYLAQERARAAEIGYEDPINPTYEATNAMYHRCLDYVLEELKHNAKAKVMVAS HNEDTVRFALRRMEELGLHPADHRVYFGQLLGMCDQISFPLGQ
Sequence Similarities	Belongs to the proline oxidase family.

GENE INFORMATION

Gene Name	PRODH proline dehydrogenase (oxidase) 1 [Homo sapiens]
Official Symbol	PRODH
Synonyms	PRODH; proline dehydrogenase (oxidase) 1; proline dehydrogenase (proline oxidase); proline dehydrogenase 1, mitochondrial; HSPOX2; PIG6; PRODH1; PRODH2; TP53I6;
Gene ID	5625
mRNA Refseq	NM_001195226
Protein Refseq	NP_001182155
MIM	606810
Uniprot ID	O43272
Chromosome	22q11.2

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Location	
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	oxidoreductase activity; proline dehydrogenase activity;

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