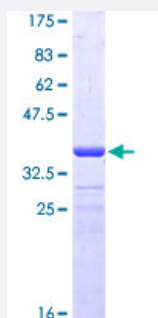


PRODH (Human) Recombinant Protein (Q01)

Catalog # H00005625-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PRODH partial ORF (NP_057419, 441 a.a. - 540 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LVRGAYLAQERARAAEIGYEDPINPTYEATNAMYHRCLDYVLEELKHNAKAKVMVASHNEDTVRF ALRRMEELGLHPADHRVYFGQLLGMCDQISFPLGQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (86)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — PRODH

Entrez GeneID	5625
GeneBank Accession#	NM_016335
Protein Accession#	NP_057419
Gene Name	PRODH
Gene Alias	FLJ33744, HSPOX2, MGC148078, MGC148079, PIG6, POX, PRODH1, PRODH2, SCZD4, TP53I6
Gene Description	proline dehydrogenase (oxidase) 1
Omim ID	239500 606810
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a mitochondrial proline dehydrogenase that catalyzes the first step in proline degradation. Defects in this gene are a cause of hyperprolinemia type 1 and possibly susceptibility to schizophrenia 4 (SCZD4). The gene is located on chromosome 22q11.21, a region which has also been associated with the contiguous gene deletion syndromes DiGeorge syndrome and CATCH22 syndrome. [provided by RefSeq]
Other Designations	OTTHUMP00000196495 proline dehydrogenase 1 proline oxidase 2 proline oxidase, mitochondrial tumor protein p53 inducible protein 6

Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

Disease

- [Amino Acid Metabolism](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cognition](#)
- [DiGeorge syndrome](#)
- [Dominance](#)
- [Genetic Predisposition to Disease](#)
- [Memory](#)
- [Mental Disorders](#)
- [Mental Retardation](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Startle Reaction](#)
- [Verbal Learning](#)