

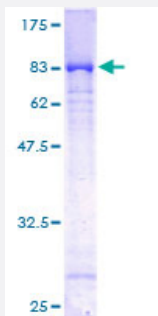
Full-Length

DLD (Human) Recombinant Protein (P01)

Catalog # H00001738-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DLD full-length ORF (AAH18696, 1 a.a. - 509 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MQSWSRVYCSLAKRGHFNRISHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGYVAAIKAAQLGF
KTVCIEKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIE MSEVRLNLDKMMEQKSTA
VKALTGGIAHLFKQNKVVHVNGYGKITGKNQVTATKADGGTQVIDTKNILATGSEVTPFPGITIDEDTI
VSSTGALSLKKVPEKMMVIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRILQ
KQGFKFKLNTKVTGATKKSDGKIDV SIEAASGGKAEVITCDVLLVCIGRRPFTKNLGLEELGIELDP
RGRIPVNTRFQTKIPNIYAIGDVVAGPMLAHKAEDEGICVEGMAGGAVHIDYNCVPSVIYTHPEVAW
VGKSEEQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGP GAGEMVNE
AALALEYGASCEDIARVCHAHPTLSEAFREANLAASF GKSINF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

81.73

Interspecies Antigen Sequence

Mouse (95); Rat (95)

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 — DLD

Entrez GeneID	1738
GeneBank Accession#	BC018696
Protein Accession#	AAH18696
Gene Name	DLD
Gene Alias	DLDH, E3, GCSL, LAD, PHE3
Gene Description	dihydrolipoamide dehydrogenase
Omim ID	238331 248600 256000
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the L protein of the mitochondrial glycine cleavage system. The L protein, also named dihydrolipoamide dehydrogenase, is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acid dehydrogenase complex. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency. [provided by RefSeq]
Other Designations	E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex diaphorase dihydrolipoyl dehydrogenase glycine cleavage system protein L lipoamide dehydrogenase lipoamide reductase lipoyl dehydrogenase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycine](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)

Disease

- [Alzheimer disease](#)