

Recombinant Full Length Human IVD Protein, GST-tagged

Cat. No. IVD-5848HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview Human IVD full-length ORF (AAH17202, 1 a.a. - 423 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 423 amino acids

Description Isovaleryl-CoA dehydrogenase (IVD) is a mitochondrial matrix enzyme that catalyzes the third step in leucine catabolism. The genetic deficiency of IVD results in an accumulation of isovaleric acid, which is toxic to the central nervous system and leads to isovaleric acidemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Molecular Mass 72.27 kDa

AA Sequence

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MATATRLLGCRVASWRLRPPLAGFVSQRAHSLLPVDDAINGLSEEQRQLRQTMAKF
LQEHLAPKAQEIDRSNEFKNLREFWKQLGNLGVLGITAPVQYGGSGGLGYLEHVLVM
EEISRASGAVGLSYGAHSNLCINQLVRNGNEAQKEKYLPKLISGEYIGALAMSEPNA
GSDVVSMLKKAEEKGNHYILNGNKFWITNGPDADVLIVYAKTDLAAVPASRGITAFIV
EKGMPGFSTSKKLDKLGMRGSNTCELIFEDCKIPAANILGHENKGVYVLMGLDLER
LVLAGGPLGLMQAVLDHTIPYLHVREAFGQKIGHFQLMQGKMADMYTRLMACRQYV
YNVAKACDEGHCTAKDCAGVILYSAECATQVALDGIQCFGGNGYINDFPMGRFLRD
AKLYEIGAGTSEVRRLVIGRAFNAFDH
    
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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	IVD isovaleryl-CoA dehydrogenase [Homo sapiens]
Official Symbol	IVD
Synonyms	IVD; isovaleryl-CoA dehydrogenase; isovaleryl CoA dehydrogenase , isovaleryl Coenzyme A dehydrogenase; isovaleryl-CoA dehydrogenase, mitochondrial; ACAD2; isovaleryl CoA dehydrogenase; isovaleryl Coenzyme A dehydrogenase; FLJ12715; FLJ34849;
Gene ID	3712
mRNA Refseq	NM_001159508
Protein Refseq	NP_001152980
MIM	607036
UniProt ID	P26440

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