

Recombinant Human IVD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IVD-5996H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

IVD MS Standard C13 and N15-labeled recombinant protein (NP_002216) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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 have been found for this gene.

Molecular Mass

46.2 kDa

AA Sequence

MATATRLLGCRVASWRLRPPLAGFVSQRAHSLLPVDDAINGLSEEQRQLRQTMAKF
LQEHLAPKAQEIDRSNEFKNLREFWKQLGNLGVLGITAPVQYGGSGGLGYLEHVLVM
EEISRASGAVGLSYGAHSNLCINQLVRNGNEAQKEKYLPLKISGEYIGALAMSEPNA
GSDVVSMKLKAEKKGNYHILNGNKFWITNGPDADVLIVYAKTDLAAVPASRGITAFIV
EKGMPGFSTSKKLDKLGMRGSNTCELIFEDCKIPAANILGHENKGVYVLMGLDLER
LVLGGPLGLMQAVLDHTIPYLVHREAFGQKIGHFQLMQGKMADMYTRLMACRQYV
YNVAKACDEGHCTAKDCAGVILYSAECATQVALDGIQCFGGNGYINDFPMGRFLRD
AKLYEIGAGTSEVRRLVIGRAFNADFHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	IVD isovaleryl-CoA dehydrogenase [Homo sapiens (human)]
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_002225
Protein Refseq	NP_002216
MIM	607036
UniProt ID	P26440

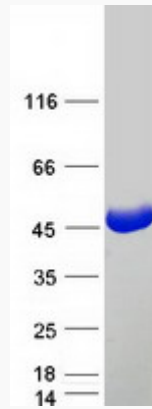
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SDS-PAGE



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