

## IVD Human

**Description:** IVD Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 415 amino acids (33-426 a.a.) and having a molecular mass of 45.3 kDa. The IVD is fused to a 20 amino acid his tag at N-terminus and purified by conventional chromatography.

Catalog #:ENPS-497

For research use only.

**Synonyms:** FLJ12715, isovaleryl-CoA dehydrogenase mitochondrial, FLJ34849, EC 1.3.99.10, IVD, ACAD2.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MHSLLPVDDA INGLSEEQRQ  
LRQTMAKFLQ EHLAPKAQEI DRSNEFKNLR EFWKQLGNLG VLGITAPVQY GGSGLGYLEH  
VLVMEIISRA SGAVGLSYGA HSNLCINQLV RNGNEAQKEK YLPKLISGEY IGALAMSEPN  
AGSDVVSMLK KAEKKGNYHI LNGNKFITN GPDADVLIVY AKTDLAAVPA SRGITAFIVE  
KGMPGFSTSK KL

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The IVD protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

### Stability:

IVD although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

IVD is a mitochondrial matrix enzyme that is part of the cyl-CoA dehydrogenase family which catalyzes the third step in leucine catabolism. The genetic deficiency of IVD leads to a buildup of isovaleric acid, which is toxic to the central nervous system and results in isovaleric acidemia. IVD is a homotetrameric flavoenzyme which catalyzes the conversion of isovaleryl-CoA to 3-methylcrotonyl-CoA.

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