

Recombinant Mouse IVD Protein (His31-Arg424), His-tagged

Cat. No. IVD-876M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IVD Protein (NP_062800.1) (His31-Arg424) was produced by Baculovirus-Insect Cells expression system. This protein was expressed with a polyhistidine tag at the N-terminus.
Species	Mouse
Source	Insect Cells
ProteinLength	His31-Arg424
Description	Isovaleryl-CoA dehydrogenase, also known as IVD, plays an essential role in processing proteins obtained from the diet. The body breaks down proteins from food into smaller parts called amino acids. Amino acids can be further processed to provide energy for growth and development. Isovaleryl-CoA dehydrogenase helps process a particular amino acid called leucine. Specifically, isovaleryl-CoA dehydrogenase is responsible for the third step in the breakdown of leucine. This step is a chemical reaction that converts a molecule called isovaleryl-CoA to another molecule, 3-methylcrotonyl-CoA. Additional chemical reactions convert 3-methylcrotonyl-CoA into molecules that are used for energy.
Predicted N Terminal	His
Form	Lyophilized from sterile 50 mM Tris, pH 7.5, 150 mM NaCl, 10 % glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant mouse IVD consists of 413 amino acids and predicts a molecular mass of 45.3 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	<i>Ivd isovaleryl coenzyme A dehydrogenase [Mus musculus]</i>
Official Symbol	IVD
Synonyms	IVD; AI463340; 1300016K07Rik; 6720455E18Rik;
Gene ID	56357

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mRNA Refseq	NM_019826
Protein Refseq	NP_062800
UniProt ID	Q9JHI5

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