IVD Protein, Mouse (sf9, His)

Cat. No.:	HY-P73856
Synonyms:	Isovaleryl-CoA dehydrogenase, mitochondrial; IVD
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q9JHI5 (H31-R424)
Gene ID:	56357
Molecular Weight:	Approximately 45.3 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, pH 7.5, 150 mM NaCl, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The IVD protein plays a crucial role in the leucine (Leu) catabolic pathway by catalyzing the conversion of isovaleryl-CoA/3-methylbutanoyl-CoA to 3-methylbut-2-enoyl-CoA. This reaction serves as an intermediate step in the pathway. Additionally, the IVD protein exhibits the ability to catalyze the oxidation of other saturated short-chain acyl-CoA thioesters such as pentanoyl-CoA, hexenoyl-CoA, and butenoyl-CoA, although to a lesser extent.

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