

## Product datasheet for **AR09386PU-L**

### IVD (33-426, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	IVD (33-426, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MHSLLPVDDA INGLSEEQRQ LRQTMAKFLQ EHLAPKAQEI DRSNFEKFLNR EFWKQLGNLG VLGITAPVQY GGSGLGYLEH VLMEEISRA SGAVGLSYGA HSNLCINQLV RRGNEAQKEK YLPKLISGEY IGALAMSEPN AGSDVSMKL KAEKKGNYI LNGNKFWITN GPDADVLIVY AKTDLAAPVA SRGITAFIVE KGMPGFSTSK KLDKLGMRGS NTCELIFEDC KIPAANILGH ENKGVYVLM SGLDLERLVLA GGPLGLMQAV LDHTIPYLHV REAFGQKIGH FQLMQGKMAD MYTRLMACRQ YVYNVAKACD EGHCTAKDCA GVILYSAECA TQVALDGIQC FGGNGYINDF PMGRFLRDAK LYEIGAGTSE VRRLVIGRAF NADFH
Tag:	His-tag
Predicted MW:	45.3 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human IVD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001152980</u>
Locus ID:	3712
UniProt ID:	<u>P26440, A0A0S2Z4K7</u>
Cytogenetics:	15q15.1



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**Synonyms:** ACAD2; IVDH

**Summary:** 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. [provided by RefSeq, Aug 2017]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Valine, leucine and isoleucine degradation

**Product images:**

