

## Product datasheet for PH301077

### IVD (NM\_002225) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	IVD MS Standard C13 and N15-labeled recombinant protein (NP_002216)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201077
Predicted MW:	46.2 kDa
Protein Sequence:	>RC201077 protein sequence Red=Cloning site Green=Tags(s)

MATATRLLGCRVASWRLRPPLAGFVSQRAHSLLPVDDAINGLSEEQRQLRQTMAKFLQEHLAPKAQEIDR  
SNEFKNLREFWKQLGNLGVLGITAPVQYGGSGLYLEHVLVMEEISRASGAVGLSYGAHSNLCINQLVRN  
GNEAQKEKYLPKLISGEYIGALAMSEPNAGSDVSMKLLAEKKGNYILNGNKFWITNGPDADVLIVYAK  
TDLAAVPASRGITAFIVEKGMFGFSTSKLCLKLGMGRSNTCELFEDCKIPAANILGHENKGVYVLMVSLG  
DLERLVLAGGPLGLMQAVLDHTIPYLHVREAFGQKIGHFQLMQGKMADMYTRLMACRQYVYNVAKACDEG  
HCTAKDCAGVILYSAECATQVALDGIQCFGGNGYINDFPMGRFLRDAKLYEIGAGTSEVRRLLVIGRAFNA  
DFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_002216</a></u>
RefSeq Size:	4673
RefSeq ORF:	1269
Synonyms:	ACAD2; IVDH



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Locus ID: 3712

UniProt ID: [P26440](#), [A0A0A0MT83](#)

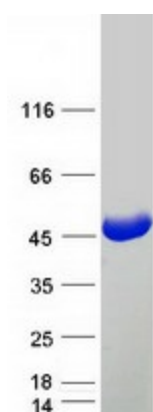
Cytogenetics: 15q15.1

**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:



Coomassie blue staining of purified IVD protein (Cat# [TP301077]). The protein was produced from HEK293T cells transfected with IVD cDNA clone (Cat# [RC201077]) using MegaTran 2.0 (Cat# [TT210002]).