OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH307367

D2HGDH (NM_152783) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	D2HGDH MS Standard C13 and N15-labeled recombinant protein (NP_689996)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207367
Predicted MW:	56.4 kDa
Protein Sequence:	>RC207367 protein sequence Red=Cloning site Green=Tags(s) MLPRRPLAWPAWLLRGAPGAAGSWGRPVGPLARRGCCSAPGTPEVPLTRERYPVQRLPFSTVSKQDLAAF ERIVPGGVVTDPEALQAPNVDWLRTLRGCSKVLLRPRTSEEVSHILRHCHERNLAVNPQGGNTGMVGGSV PVFDEIILSTARMNRVLSFHSVSGILVCQAGCVLEELSRYVEERDFIMPLDLGAKGSCHIGGNVATNAGG LRFLRYGSLHGTVLGLEVVLADGTVLDCLTSLRKDNTGYDLKQLFIGSEGTLGIITTVSILCPPKPRAVN VAFLGCPGFAEVLQTFSTCKGMLGEILSAFEFMDAVCMQLVGRHLHLASPVQESPFYVLIETSGSNAGHD AEKLGHFLEHALGSGLVTDGTMATDQRKVKMLWALRERITEALSRDGYVYKYDLSLPVERLYDIVTDLRA RLGPHAKHVVGYGHLGDGNLHLNVTAEAFSPSLLAALEPHVYEWTAGQQGSVSAEHGVGFRKRDVLGYSK PPGALQLMQQLKALLDPKGILNPYKTLPSQA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	50 ug/ml as determined by BCA
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	100 mM glycine, 25 mM Tris-HCl, pH 7.3. Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_689996
RefSeq Size:	2660
RefSeq ORF:	1563
Synonyms:	D2HGD
Locus ID:	728294

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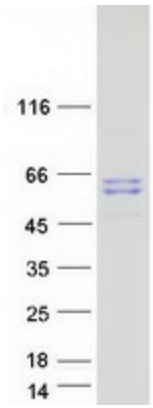
UniProt ID: Q8N465, B4E3K7

Cytogenetics: 2q37.3

Summary: This gene encodes D-2hydroxyglutarate dehydrogenase, a mitochondrial enzyme belonging to the FAD-binding oxidoreductase/transferase type 4 family. This enzyme, which is most active in liver and kidney but also active in heart and brain, converts D-2-hydroxyglutarate to 2-ketoglutarate. Mutations in this gene are present in D-2-hydroxyglutaric aciduria, a rare recessive neurometabolic disorder causing developmental delay, epilepsy, hypotonia, and dysmorphic features. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified D2HGDH protein (Cat# [TP307367]). The protein was produced from HEK293T cells transfected with D2HGDH cDNA clone (Cat# [RC207367]) using MegaTran 2.0 (Cat# [TT210002]).