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Product datasheet for PH305342

ALDH1A2 (NM_170696) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDH1A2 MS Standard C13 and N15-labeled recombinant protein (NP_733797)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205342
Predicted MW:	53.1 kDa
Protein Sequence:	>RC205342 protein sequence Red=Cloning site Green=Tags(s) MTSSKIEMPGEVKADPAALMASLHLLPSPTPNLEIKYTKIFINNEWQNSESGRVFPVYNPATGEQVCEVQ EADKADIDKAVQAARLAFSLGSVWRRMDASERGRLLDKLADLVERDRAVLATMESLNGGKPFLQAFYVDL QGVIKTFRYYAGWADKIHGMTIPVDGDYFTFTRHEPIGVCGQIIPWNFPLLMFAWKIAPALCCGNTVVIK PAEQTPLSALYMGALIKEVGKLIQEAAGRSNLKRVTLELGGKSPNIIFADADLDYAVEQAHQGVFFNQGQ CCTAGSRIFVEESIYEEFVRRSVERAKRRVVGSPFDPTTEQGPQIDKKQYNKILELIQSGVAEGAKLECG GKGLGRKGFFIEPTVFSNVTDDMRIAKEEIFGPVQEILRFKTMDEVIERANNSDFGLVAAVFTNDINKAL TVSSAMQAGTVWINCYNALNAQSPFGGFKMSGNGREMGEFGLREYSEVKTVTVKIPQKNS 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_733797
RefSeq Size:	3492
RefSeq ORF:	1440
Synonyms:	RALDH(II); RALDH2; RALDH2-T

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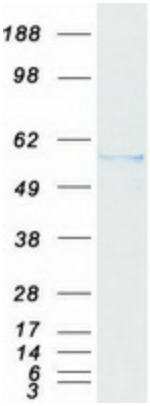
Locus ID:	8854
UniProt ID:	O94788
Cytogenetics:	15q21.3
Summary:	This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2011]
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Retinol metabolism

Product images:



Coomassie blue staining of purified ALDH1A2 protein (Cat# [TP305342]). The protein was produced from HEK293T cells transfected with ALDH1A2 cDNA clone (Cat# [RC205342]) using MegaTran 2.0 (Cat# [TT210002]).