

Product datasheet for PH323250

ALDH1A2 (NM_003888) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDH1A2 MS Standard C13 and N15-labeled recombinant protein (NP_003879)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223250
Predicted MW:	56.5 kDa
Protein Sequence:	>RC223250 representing NM_003888 Red=Cloning site Green=Tags(s)

MTSSKIEMPGEVKADPAALMASLHLLPSPTPNLEIKYTKIFINNEWQNSESGRVFPVYNPATGEQVCEVQ
EADKADIDKAVQAARLAFSLGSVWRMDASERGRLLDKLADLVERDRAVLATMESLNGGKPFQAFYVDL
QGVIKTFRYYAGWADKIHGMTIPVDGDYFTFTRHEPIGVCQIIPWNFPLLMFAWKIAPALCCGNTVVIK
PAEQTPLSALYMGALIKEAGFPVGINILPGYGPTAGAAIASHIGIDKIAFTGSTVEGKLIQEAAGRSNL
KRVTLELGGKSPNIIIFADADLDYAVEQAHQGVFFNQGCCTAGSRIFVEESIYEEFVRRSVERAKRRVVG
SPFDPTTEQGPQIDKKQYNKILELIQSGVAEGAKLECGGKGLGRKGFIEPTVFSNVTDDMRIAKEEIFG
PVQEILRFKTMDEVIERANNSDFGLVAAVFTNDINKALTVSSAMQAGTVWINCYNALNAQSPFFGGFKMSG
NGREMGEFGLREYSEVKTVTKIPQKNS

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:	<u>NP_003879</u>
RefSeq Size:	3398
RefSeq ORF:	1554



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Synonyms: RALDH(II); RALDH2; RALDH2-T

Locus ID: 8854

UniProt ID: [O94788](#)

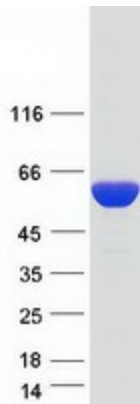
Cytogenetics: 15q21.3

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# [TP323250]). The protein was produced from HEK293T cells transfected with ALDH1A2 cDNA clone (Cat# [RC223250]) using MegaTran 2.0 (Cat# [TT210002]).