

Product datasheet for PH323398

Aldehyde dehydrogenase 10 (ALDH3A2) (NM_000382) Human Mass Spec Standard

Product data:

| | |
|---------------------------------------|-------------------------------------------------------------------------|
| Product Type: | Mass Spec Standards |
| Description: | ALDH3A2 MS Standard C13 and N15-labeled recombinant protein (NP_000373) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC223398 |
| Predicted MW: | 54.7 kDa |
| Protein Sequence: | >RC223398 representing NM_000382 Red=Cloning site Green=Tags(s) |

MELEVRRVRQAFLSGRSRPLRFRLQQLEALRRMVQEREKIDILTAIADLCKSEFNYSQEVITVLGEIDF
MLENLPEWVTAKPVKKNVLTMLDEAYIQPQLGVVLIIGAWNYPFVLTIQPLIGAIAGNAVIKPSLS
ENTAKILAKLLPQYLDQDLYIVINGVEETELLKQRFDHIFYTGNTAVGKIVMEAAAKHLTPVTLELGG
KSPCYIDKDCDLDIVCRITWGYMNCGQTCIAPDYILCEASLQNIQVWKIKETVKEFYGENIKESPDYE
RIINLRHFKRILSLEGGQKIAFGGETDEATRYIAPTVDVDPKTKVMQEEIFGPILPIVPKVNDEAIN
FINEREKPLALYVFSHNHKLKRMIDETSSGGVTGNDVIMHFTLNSFPFGGVGSSGMGAYHGKHSFDTF
HQRPCLLKSLKREGANKLRYPPNSQSKVDWGKFFLLKRFNKEKLGLLLLTFLGIVA AVL VKAEYY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_000373</u> |
| RefSeq Size: | 3702 |
| RefSeq ORF: | 1455 |
| Synonyms: | ALDH10; FALDH; SLS |



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Locus ID: 224

UniProt ID: [P51648](#)

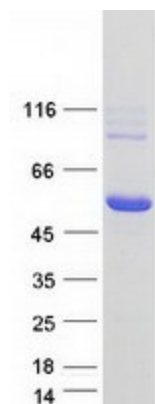
Cytogenetics: 17p11.2

Summary: Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

Product images:



Coomassie blue staining of purified ALDH3A2 protein (Cat# [TP323398]). The protein was produced from HEK293T cells transfected with ALDH3A2 cDNA clone (Cat# [RC223398]) using MegaTran 2.0 (Cat# [TT210002]).