

Recombinant Human ALDH3A1 Protein, GST-tagged

Cat. No. ALDH3A1-445H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH3A1 full-length ORF (AAH04370, 1 a.a. - 453 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2008]
Molecular Mass	75.35 kDa
AA Sequence	MSKISEAVKRARAAFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEW NAYYEEVVVYVLEEIEYMIQKLPEWAADEPVEKTPQTQQDELYIHSEPLGVVLVIGTW NYPFNLTIQPMVGAIAAGNAVVLKPSSELSMASLLATIIPQYLDKDLYPVINGGVPET TELLKERFDHILYTGSTGVGKIIMTAAAKHLTPVTLELGGKSPCYVDKNCDLDVACRR

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IAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKSLKEFYGEDAKKSRDYGRIISAR
 HFQRMGLIEGQKVAYGGTGDAATRYIAPTILTDGDPQSPVMQEEIFGPVLPVCVR
 SLEELAIQFINQREKPLALYMFSSNDKVIKKMIAETSSGGVAANDVIVHITLHSLPFGGV
 GNSGMGSYHGKKSFFETFSHRRSCLVRPLMNDGGLKVRYPPSPAKMTQH

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ALDH3A1 aldehyde dehydrogenase 3 family, member A1 [Homo sapiens]

Official Symbol

ALDH3A1

Synonyms

ALDH3A1; aldehyde dehydrogenase 3 family, member A1; ALDH3; aldehyde dehydrogenase, dimeric NADP-preferring; aldehyde dehydrogenase; dimeric NADP preferring; stomach aldehyde dehydrogenase; aldehyde dehydrogenase type III; aldehyde dehydrogenase isozyme 3; ALDHIII; MGC10406;

Gene ID

218

mRNA Refseq

NM_000691

Protein Refseq

NP_000682

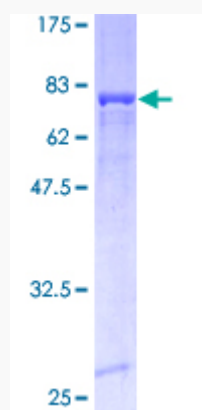
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MIM 100660

UniProt ID P30838



12.5% SDS-PAGE Stained with Coomassie Blue.

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