

Recombinant Full Length Human ALDH3A1 Protein, GST-tagged

Cat. No. ALDH3A1-1405HF **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	In Vitro Cell Free System
ProteinLength	453 amino acids
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	MSKISEAVKR ARAAFSSGRT RPLQFRIQQL EALQRLIQEQ EQELVGALAA DLHKNEWNAY YEEVVVYLEE IEYMIQKLPE WAADEPVEKT PQTQQDELYI

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HSEPLGVVLV IGTWNYPFNL TIQPMVGAIA AGNAVVLKPS ELSENMASLL
 ATIIPQYLDK DLYPVINGGV PETTELLKER FDHILYTGST GVGKIIMTAA
 AKHLTPVTLE LGGKSPCYVD KNCDLDVACR RIAWGKFMNS GQTCVAPDYI
 LCDPSIQNQI VEKLKSLKE FYGEDAKKSR DYGRIISARH FQRMVGLIEG
 QKVAYGGTGD AATRYIAPTI LTDGDPQSPV MQEEIFGPVL PIVCVRSLEE
 AIQFINQREK PLALYMFSSN DKVIKKMIAE TSSGGVAAND VIVHITLHSL
 PFGGVGNSGM GSYHGKKSFE TFSHRRSCLV RPLMNDGGLK VRYPPSPAKM
 TQH

Applications

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

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](#)

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Protein Refseq	NP_000682
MIM	100660
UniProt ID	P30838

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