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 NAYYEEVVYVLEEIEYMIQKLPEWAADEPVEKTPQTQQDELYIHSEPLGVVLVIGTW NYPFNLTIQPMVGAIAAGNAVVLKPSELSENMASLLATIIPQYLDKDLYPVINGGVPET TELLKERFDHILYTGSTGVGKIIMTAAAKHLTPVTLELGGKSPCYVDKNCDLDVACRR

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

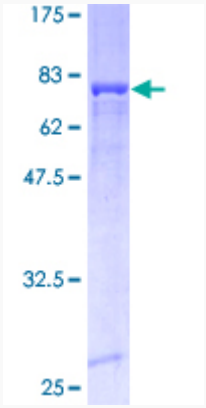
	IAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKKSLKEFYGEDAKKSRDYGRIISAR HFQRVMGLIEGQKVAYGGTGDAATRYIAPTILTDGDPQSPVMQEEIFGPVLPIVCVR SLEEAIQFINQREKPLALYMFSSNDKVIKKMIAETSSGGVAANDVIVHITLHSLPFGGV GNSGMGSYHGKKSFETFSHRRSCLVRPLMNDGGLKVRYPPSPAKMTQH
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	100660
UniProt ID	P30838



12.5% SDS-PAGE Stained with Coomassie Blue.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA