

Recombinant Human Aldehyde Dehydrogenase 8 Family, Member A1, GST-tagged

Cat. No. ALDH8A1-502H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH8A1 protein was expressed as gst-tagged fusion protein by E. coli and purified by GSH-sepharose. The purified protein was resolved in 1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% TritonX-100, 15% glycerol.
Species	Human
Source	E.coli
Description	ALDH8A1 belongs to the aldehyde dehydrogenase family of proteins. It plays a role in a pathway of 9-cis-retinoic acid biosynthesis in vivo. ALDH8A1 converts 9-cis-retinal into the retinoid X receptor ligand 9-cis-retinoic acid, and has approximately 40-fold higher activity with 9-cis-retinal than with all-trans-retinal. Therefore, it is the first known aldehyde dehydrogenase to show a preference for 9-cis-retinal relative to all-trans-retinal. Two transcript variants encoding distinct isoforms have been identified for this gene.
Antigen peptid region	C-352aa
Full length	False
Storage	The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be avoided.

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GENE INFORMATION

Gene Name	ALDH8A1 aldehyde dehydrogenase8 family, member A1 [Homo sapiens]
Official Symbol	ALDH8A1
Synonyms	ALDH8A1;aldehyde dehydrogenase 8 family, member A1; ALDH12; DKFZp779D2315; MGC138650;DJ352A20.2; aldehyde dehydrogenase family 8 member A1; aldehyde dehydrogenase12; aldehyde dehydrogenase family protein; EC 1.2.1.-; EC 1.2.1; EC 1.2.1.3;OTTHUMP00000017250; OTTHUMP00000017251; OTTHUMP00000234165
Gene ID	64577
mRNA Refseq	NM_022568
Protein Refseq	NP_072090
MIM	606467
UniProt ID	Q9H2A2
Chromosome Location	6q23.2
Function	oxidoreductaseactivity; retinal dehydrogenase activity

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