

Recombinant Human Aldehyde Dehydrogenase 1 Family, Member B1, GST-tagged

Cat. No. ALDH1B1-490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH1B1 protein was expressed as GST-tagged fusion protein by E. coli and purified by Ni-sepharose. The purified protein was resolved in 1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol. MW=32 kDa.
Species	Human
Source	E.coli
Protein Length	330-382 aa
Description	ALDH1B1 belongs to the aldehyde dehydrogenases family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. ALDH1B1 does not contain introns in the coding sequence. The variation of this locus may affect the development of alcohol-related problems.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.
Bio-activity	Not tested.
Molecular Mass	32 kDa

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AA Sequence	SIYNEFLERTVEKAKQRKVGPNPFELDTQQGPQVDKEQFERVLGYIQLGQKEGA
Purity	90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Applications	Blocking peptide
Stability	Store for up to 12 months at -20°C to -80°C as lyophilized powder.
Storage	<p>Short-term storage: Store at 2-8°C for (1-2 weeks).</p> <p>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.</p>
Reconstitution	<p>Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage.</p> <p>Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).</p> <p>If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).</p> <p>Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.</p>

GENE INFORMATION

Gene Name	ALDH1B1 aldehyde dehydrogenase 1family, member B1[Homo sapiens]
Official Symbol	ALDH1B1
Synonyms	ALDH1B1;aldehyde dehydrogenase 1 family, member B1; ALDH5; ALDHX; aldehydedehydrogenase X, mitochondrial; ALDH class 2; aldehyde dehydrogenase 5;acetaldehyde dehydrogenase 5; MGC2230; EC 1.2.1.3; EC

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1.2.1;OTTHUMP00000021399

Gene ID 219

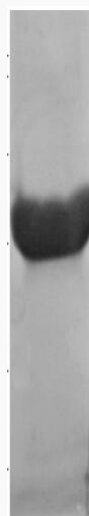
mRNA Refseq NM_000692

Protein Refseq NP_000683

MIM 100670

UniProt ID P30837

**SDS-PAGE of
ALDH1B1-490H**



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