

Recombinant Human ALDH1A3 Protein (2-512 aa), His-tagged

Cat. No. ALDH1A3-2118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH1A3 Protein (2-512 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	2-512 aa
Description	Recognizes as substrates free retinal and cellular retinol-binding protein-bound retinal. Seems to be the key enzyme in the formation of an RA gradient along the dorso-ventral axis during the early eye development and also in the development of the olfactory system.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	58.0 kDa
AA Sequence	ATANGAVENGQPDRKPPALPRPIRNLEVKFTKIFINNEWHESKSGKKFATCNPSTRE QICEVEEGDKPDVDKAVEAAQVAFQRGSPWRRDLALSRGRLHQLADLVERDRATL AALETMDTGKPFLLHAFFIDLEGCIRTLRYFAGWADKIQGKTIPTDDNVVCFTRHEPIG VCGAITPWNFLLMLVWKLAPALCCGNTMVLKPAEQTPLTALYLGSLIKEAGFPPGV VNIVPGFGPTVGAAISSHPQINKIAFTGSTEVGKLVKEAASRSNLKRVTLLELGGKNPCI VCADADLDLAVECAHQGVFFNQGCCTAASRVFVEEQVYSEFVRRSVEYAKKRPV

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GDPFDVKTEQGPQIDQKQFDKILELIESGKKEGAKLECGGSAMEDKGLFIKPTVFSE
 VTDNMRIAKEEIFGPVQPILKFKSIEEVIKCRANSTDYGLTAAVFTKNLKDALKLASALES
 GTVWINCYNALYAQAPFGGFKMSGNGRELGEYALAEYTEVKTVTIKLGDKNP

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [ALDH1A3 aldehyde dehydrogenase 1 family, member A3 \[Homo sapiens \]](#)

Official Symbol [ALDH1A3](#)

Synonyms ALDH1A3; ALDH6; RALDH3; RALDH-3; ALDH1A6;

Gene ID [220](#)

mRNA Refseq [NM_000693](#)

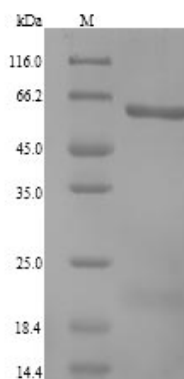
Protein Refseq [NP_000684](#)

MIM [600463](#)

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UniProt ID**P47895**

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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