

Full-Length

ALDH1A3 (Human) Recombinant Protein (P01)

Catalog # H00000220-P01

Size 50 ug

Specification

Product Description	Human ALDH1A3 full-length ORF (BAG35229.1, 1 a.a. - 512 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MATANGAVENGQPDRKPPALPRPIRNLEVKFTKIFINNEWHESKSGKKFATCNPSTREQICEVEE GDKPDVDKAVEAAQVAFQRGSPWRRLDALSRGRLLHQLADLVERDRATLAALETMDTGKPFLLH AFFIDLEGCIRTLRYFAGWADKIQGKTIPTDDNVVCFTRHEPIGVCGAITPWNFLLMLVWKLAPAL CCGNTMVLKPAEQTPLTALYLGSLIKEAGFPPGVVNVPGFGPTVGAAISSHPQINKIAFTGSTEVG KLVKEAASRSNLKRVTLLEGGKNPCIVCADADLDLAVECAHQGVFFNQGCCTAASRVFVEEQ VYSEFVRRSVEYAKKRPVGDVPFDVKTEQGPQIDQKQFDKILELIESGKKEGAKLECGGPAMEDK GLFIKPTVFSEVTDNMRIAKEEIFGPVQPILKFKSIEEVIKLANSTDYGLTAAVFTKNLDKALKLASAL ESGTVWINCYNALYAQAPFGGFKMSGNGRELGEYALAEYTEVKTVTIKLGDKNP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	82.72
Interspecies Antigen Sequence	Mouse (94); Rat (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)

- Antibody Production
- Protein Array

Gene Info — ALDH1A3

Entrez GeneID [220](#)

GeneBank Accession# [AK312303.1](#)

Protein Accession# [BAG35229.1](#)

Gene Name ALDH1A3

Gene Alias ALDH1A6, ALDH6, RALDH3

Gene Description aldehyde dehydrogenase 1 family, member A3

Omim ID [600463](#)

Gene Ontology [Hyperlink](#)

Gene Summary Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The enzyme encoded by this gene uses retinal as a substrate, either in a free or cellular retinol-binding protein form. [provided by RefSeq]

Other Designations acetaldehyde dehydrogenase 6|aldehyde dehydrogenase 1A3|aldehyde dehydrogenase 6|retinal dehydrogenase 3

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glycolysis / Gluconeogenesis](#)
- [Histidine metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Phenylalanine metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)