

Active NADP-dependent Isopropanol Dehydrogenase (ADH1-NADP) recombinant protein

primary alcohol dehydrogenase; ADH; aliphatic alcohol dehydrogenase; ethanol dehydrogenase; NAD-spec
Catalog # PBV11208r

Specification

Active NADP-dependent Isopropanol Dehydrogenase (ADH1-NADP) recombinant protein - Product info

Primary Accession [P35630](#)
Calculated MW ~40.9 kDa
(SDS-PAGE) kDa

Active NADP-dependent Isopropanol Dehydrogenase (ADH1-NADP) recombinant protein - Additional Info

Gene ID **5759**
Gene Symbol **ADH1**
Other Names
primary alcohol dehydrogenase; ADH;
aliphatic alcohol dehydrogenase; ethanol
dehydrogenase; NAD-specific aromatic
alcohol dehydrogenase; NADP-aldehyde
dehydrogenase; yeast alcohol
dehydrogenase; alcohol dehydrogenase
activity; aldehyde dehydrogenase (NADP)
activity

Gene Source **E. Coli**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Format
Liquid

Storage

-20°C; 1 mg/mL solution in 50 mM Tris-HCl
buffer (pH 8.0) containing 100 mM NaCl and
50% glycerol

Active NADP-dependent Isopropanol Dehydrogenase (ADH1-NADP) recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

Active NADP-dependent Isopropanol Dehydrogenase (ADH1-NADP) recombinant protein - Background

Alcohol dehydrogenase with a preference for medium chain secondary alcohols, such as 2-butanol and isopropanol. Has very low activity with primary alcohols, such as ethanol. Under physiological conditions, the enzyme reduces aldehydes and 2-ketones to produce secondary alcohols. Is also active with acetaldehyde and propionaldehyde.

Active NADP-dependent Isopropanol Dehydrogenase (ADH1-NADP) recombinant protein - References

Kumar A., et al. Proc. Natl. Acad. Sci. U.S.A. 89:10188-10192(1992).
Samuelson J., et al. Arch. Med. Res. 23:31-33(1992).
Shimon L.J.W., et al. Acta Crystallogr. D 62:541-547(2006).
Goihberg E., et al. Proteins 72:711-719(2008).
Goihberg E., et al. Biochemistry 49:1943-1953(2010).

- [Flow Cytometry](#)
- [Cell Culture](#)