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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

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Samuelson J.,et al.Arch. Med. Res. 23:31-33(1992).
Shimon L.J.W.,et al.Acta Crystallogr. D 62:541-547(2006).
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- Flow Cytomety
- Cell Culture