

## ADH5 Protein, Human, Recombinant (GST)

## General Information

Synonyms:	FDH; Glutathione-dependent formaldehyde dehydrogenase (FALDH; FDH; GSH-FDH); Alcohol dehydrogenase class-3; S-(hydroxymethyl)glutathione dehydrogenase; ADH5; ADHX; Alcohol dehydrogenase 5; Alcohol dehydrogenase class-III; Alcohol dehydrogenase class chi chain
Protein Construction:	2-374 aa
Species:	Human
Expression Host:	E. coli
Accession:	P11766
Molecular Weight:	66.6 kDa (predicted)
AA Sequence:	ANEVIKCKAAVAWEAGKPLSIEEIEVAPPKAHEVRIKIIATAVCHTDAYTLGADPEGCFPVILGHEGAGIVESVG EGVTKLKAGDVIPLYIPQCGECKFCLNPKTNLCQKIRVTQGKGLMPDGTSRFTCKGKILHYMGTSFSEYTVV ADISVAKIDPLAPLDKVCLLGCGISTGYGAAVNTAKLEPGSVCAVFGGLGGVGLAVIMGCKVAGASRIIGVDINK DKFARAKEFGATECINPQDFSKPIQEVLIEMTDGGVDYSFECIGNVKVMRAALEACHKGWGVSVVVGVAASG EEIATRPFLVGTGRWKGTAFFGGWKSVESVPKLVSEYMSKKIKVDEFVTHNLSFDEINKAFELMHSGKSIRTVV KI

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

## A DRUG SCREENING EXPERT

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Catalyzes the oxidation of long-chain primary alcohols and the oxidation of S-(hydroxymethyl) glutathione. Also oxidizes long chain omega-hydroxy fatty acids, such as 20-HETE, producing both the intermediate aldehyde, 20-oxoarachidonate and the end product, a dicarboxylic acid, (5Z,8Z,11Z,14Z)-eicosatetraenedioate. Class-III ADH is remarkably ineffective in oxidizing ethanol.

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