

## AR50388PU-S

## Human Alcohol dehydrogenase 6 / ADH6 (1-375, His-tag) - Purified

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quantity:</b>         | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration:</b>    | 0.5mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Background:</b>       | ADH6, also known as alcohol dehydrogenase 6, is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This protein is expressed in the stomach as well as in the liver, and it contains a glucocorticoid response element upstream of its 5' UTR, which is a steroid hormone receptor binding site.                                                                                                                                                                                                                                           |
| <b>Uniprot ID:</b>       | <a href="#">P28332</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>NCBI:</b>             | <a href="#">NP_001095940.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>GenelD:</b>           | <a href="#">130</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source:</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Format:</b>           | <b>State:</b> Liquid purified protein<br><b>Purity:</b> >90% by SDS - PAGE<br><b>Buffer System:</b> 20 mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.15M NaCl, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description:</b>      | Recombinant human ADH6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.<br><b>AA Sequence:</b><br>MGSSHHHHHH SSGLVPRGSH MGSMTSTGQ VIRCKAAILW KPGAPFSIEE VEVAPPKAKE<br>VRIKVVATGL CGTEMKVLGS KHLDLLYPTI LGHEGAGIVE SIGEGVSTVK PGDKVITLFL<br>PQCGECTSCL NSEGNFCIQF KQSKTQLMSD GTSRFTCKGK SIYHFGNTST FCEYTVIKEI<br>SVAKIDAVAP LEKVCLISCG FSTGFGAAIN TAKVTPGSC AVFGLGGVGL SVVMGCKAAG<br>AARIIGVDVN KEKFKAQEL GATECLNPQD LKKPIQEVLF DMTDAGIDFC FEAIGNLDVL<br>AAALASCNES YGVCVVVGVL PASVQLKISG QLFFSGRSLK GSVFGGWKSR QHIPKLVADY<br>MAEKLNDPL ITHTLNLDKI NEAVELMTG KCIRCILLL<br><b>Molecular weight:</b> 42.4 kDa (399aa), confirmed by MALDI-TOF |
| <b>Storage:</b>          | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>General Readings:</b> | Yasunami M., et al. (1991) Proc. Natl. Acad. Sci. U.S.A. 88:7610-7614 Hillier L.W., et al. (2005) Nature. 434:724-731                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Pictures:

